



TETRA TECH NUS

PHIL- 21199

TO: RUSS TURNER **DATE:** JULY 10, 2007
FROM: MEGAN RITCHIE **COPIES:** FILE
SUBJECT: ORGANIC DATA VALIDATION – VOC, SVOC, AND PESTICIDE/PCB
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA
SDG NO. C7E020142
SAMPLES: 1/Aqueous/
 03TB-02
 4/Solid/
 03TP06-0304-01 03TP06-0607-04 03TP06-0708-02
 03TP06-0809-03

OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Test Pits – Willow Grove, PA, SDG C7E020142 consists of 4 solid environmental samples (designated 03TP06-), and 1 field quality control (QC) blank (designated 03-TB-). Sample 03TP06-0304-01 was designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. All samples except the trip blank were analyzed for select Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), pesticides, and Polychlorinated Biphenyls (PCBs). The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on May 1, 2007 and analyzed by Severn Trent Laboratories (STL) of Pittsburgh, Pennsylvania.

All analyses were conducted using EPA SW-846 Methods. VOCs were analyzed by 8260B, SVOCs by 8270C, and pesticides by 8081A, and PCBs by 8082.

SUMMARY

All analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field quality control blank results, system monitoring compound recoveries, matrix spike/matrix spike duplicate results, laboratory control spike/spike duplicate results, internal standards performance, compound identification, and compound quantitation.

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory blanks at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Methylene Chloride	1.6 µg/Kg	16 µg/Kg

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Compound	Maximum Concentration	Action Level
4,4'-DDD	0.28 µg/Kg	1.4 µg/Kg

Samples affected: The soil action levels apply to all soil samples.

Adjustments were made for the samples aliquot size, percent moisture, and dilution factors. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination).

- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of $\pm 25\%$ for several pesticide compounds in sample 03TP06-0304-01, 03TP06-0607-04, and 03TP06-0809-03. These compounds were qualified as estimated (J).
- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

Notes

Volatiles

The continuing calibration percent differences (%Ds) for chloroethane and trichlorofluoromethane exceeded the QC criteria of 25%. No qualifications were made because there were no positive detections of chloroethane or trichlorofluoromethane in the associated samples.

The MS/MSD recoveries for dibromomethane were below the lower QC limit of 75%. No action was taken on MS/MSD data alone.

The MS/MSD Relative Percent Difference (RPD) for chloroethane was above the QC limit of 20%. No action was taken on MS/MSD data alone.

The LCS recoveries for acetone and 2-hexanone exceeded the upper QC limits of 140% and 130%, respectively. No action was taken because these compounds were not detected in the soil environmental samples.

Semivolatiles

The initial calibration RSD for benzaldehyde exceeded the 30% criteria. No qualifications were made because there were no positive detections of this compound.

The surrogate recovery for terphenyl-d₁₄ exceeded the upper QC limit of 125%. No qualifications were made based on one surrogate outlier.

The MS/MSD recoveries for dibenz(a,h)anthracene, nitrobenzene, and diethylphthalate exceeded QC limits. The MS/MSD relative percent difference (RPD) for diethyl phthalate exceeded the QC limit. No action was taken on MS/MSD exceedances alone.

The LCS recovery for 3+4-methylphenol exceeded the upper QC limit of 105%. No action was taken because this compound was not detected in the soil environmental samples.

Two samples, 03TP06-0708-02 and 03TP06-0809-03, were analyzed at 5X dilutions due to the matrix. The extracts of these samples were dark and oily in appearance.

Pesticides

The surrogate recovery for tetrachloro-m-xylene was below the lower QC limit for one sample. No action was taken for one surrogate outlier.

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Sample 03TP05-0607-04 was analyzed at a 1000X dilution due to detected concentrations of compounds outside the calibration range of the instrument. Because of the dilution, there was no surrogate recovery. No action was taken.

The MS/MSD recoveries for endosulfan sulfate were below the lower QC limit. No action is taken on MS/MSD data alone.

PCBs

Due to matrix interference, sample 03TP05-0607-04 was analyzed at a 20X dilution. Because of the dilution, there was no surrogate recovery. No action was taken.

EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride and 4,4'-DDD were detected in the laboratory method blanks. One VOC compound exceeded continuing calibration criteria. One SVOC compound exceeded initial calibration criteria. One SVOC and one pesticide surrogate recovery were outside QC criteria. Two VOC LCS recoveries and one SVOC LCS recovery exceeded QC criteria.

Other Factors Affecting Data Quality: MS/MSD recoveries were outside QC criteria in the VOC, SVOC, and pesticide analyses. The surrogates were diluted out of one pesticide sample and one PCB sample. The detected pesticide concentrations between two columns exceeded QC criteria for several compounds in three samples.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Review", as amended for use within EPA Region 3 (9/94).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."

Megan N. Ritchie
Megan N. Ritchie
Chemist

Russell Sloboda
Tetra Tech NUS, Inc.
Russell Sloboda
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Laboratory Analytical Results
3. Appendix C – Support Documentation

APPENDIX A

Qualified Analytical Results

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP06-0304-01	nsample	03TP06-0304-01	nsample	03TP06-0607-04						
samp_date	5/1/2007	samp_date	5/1/2007	samp_date	5/1/2007						
lab_id	C7E020142001	lab_id	C7E020142001	lab_id	C7E020142004						
qc_type	NM	qc_type	NM	qc_type	NM						
units	UG/KG	units	UG/KG	units	UG/KG						
Pct_Solids	81.0	Pct_Solids	81.0	Pct_Solids	68.0						
DUP_OF:		DUP_OF:		DUP_OF:							
Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.1	U		CIS-1,3-DICHLOROPROPENE	5.1	U		1,1,1-TRICHLOROETHANE	8.1	U	
1,1,2,2-TETRACHLOROETHANE	5.1	U		CYCLOHEXANE	5.1	U		1,1,2,2-TETRACHLOROETHANE	8.1	U	
1,1,2-TRICHLOROETHANE	5.1	U		DICHLORODIFLUOROMETHANE	5.1	U		1,1,2-TRICHLOROETHANE	8.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.1	U		ETHYLBENZENE	5.1	U		1,1,2-TRICHLOROTRIFLUOROETHANE	8.1	U	
1,1-DICHLOROETHANE	5.1	U		ISOPROPYLBENZENE	5.1	U		1,1-DICHLOROETHANE	8.1	U	
1,1-DICHLOROETHENE	5.1	U		M+P-XYLENES	10	U		1,1-DICHLOROETHENE	8.1	U	
1,2,3-TRICHLOROBENZENE	5.1	U		METHYL ACETATE	5.1	U		1,2,3-TRICHLOROBENZENE	8.1	U	
1,2,4-TRICHLOROBENZENE	5.1	U		METHYL CYCLOHEXANE	5.1	U		1,2,4-TRICHLOROBENZENE	8.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.1	U		METHYL TERT-BUTYL ETHER	5.1	U		1,2-DIBROMO-3-CHLOROPROPANE	8.1	U	
1,2-DIBROMOETHANE	5.1	U		METHYLENE CHLORIDE	3.5	B	A	1,2-DIBROMOETHANE	8.1	U	
1,2-DICHLOROBENZENE	5.1	U		O-XYLENE	5.1	U		1,2-DICHLOROBENZENE	8.1	U	
1,2-DICHLOROETHANE	5.1	U		STYRENE	5.1	U		1,2-DICHLOROETHANE	8.1	U	
1,2-DICHLOROPROPANE	5.1	U		TETRACHLOROETHENE	5.1	U		1,2-DICHLOROPROPANE	8.1	U	
1,3-DICHLOROBENZENE	5.1	U		TOLUENE	5.1	U		1,3-DICHLOROBENZENE	8.1	U	
1,4-DICHLOROBENZENE	5.1	U		TRANS-1,2-DICHLOROETHENE	5.1	U		1,4-DICHLOROBENZENE	8.1	U	
2-BUTANONE	5.1	U		TRANS-1,3-DICHLOROPROPENE	5.1	U		2-BUTANONE	8.1	U	
2-HEXANONE	5.1	U		TRICHLOROETHENE	5.1	U		2-HEXANONE	8.1	U	
4-METHYL-2-PENTANONE	5.1	U		TRICHLOROFLUOROMETHANE	5.1	U		4-METHYL-2-PENTANONE	8.1	U	
ACETONE	20	U		VINYL CHLORIDE	5.1	U		ACETONE	33	U	
BENZENE	5.1	U						BENZENE	8.1	U	
BROMOCHLOROMETHANE	5.1	U						BROMOCHLOROMETHANE	8.1	U	
BROMODICHLOROMETHANE	5.1	U						BROMODICHLOROMETHANE	8.1	U	
BROMOFORM	5.1	U						BROMOFORM	8.1	U	
BROMOMETHANE	5.1	U						BROMOMETHANE	8.1	U	
CARBON DISULFIDE	5.1	U						CARBON DISULFIDE	8.1	U	
CARBON TETRACHLORIDE	5.1	U						CARBON TETRACHLORIDE	8.1	U	
CHLOROBENZENE	5.1	U						CHLOROBENZENE	8.1	U	
CHLORODIBROMOMETHANE	5.1	U						CHLORODIBROMOMETHANE	8.1	U	
CHLOROETHANE	5.1	U						CHLOROETHANE	8.1	U	
CHLOROFORM	5.1	U						CHLOROFORM	8.1	U	
CHLOROMETHANE	5.1	U						CHLOROMETHANE	8.1	U	
CIS-1,2-DICHLOROETHENE	5.1	U						CIS-1,2-DICHLOROETHENE	8.1	U	

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OV

nsample 03TP06-0607-04
 samp_date 5/1/2007
 lab_id C7E020142004
 qc_type NM
 units UG/KG
 Pct_Solids 68.0
 DUP_OF:

Parameter	Result	Val	Qual	Code
CIS-1,3-DICHLOROPROPENE	8.1	U		
CYCLOHEXANE	8.1	U		
DICHLORODIFLUOROMETHANE	8.1	U		
ETHYLBENZENE	8.1	U		
ISOPROPYLBENZENE	8.1	U		
M+P-XYLENES	16	U		
METHYL ACETATE	8.1	U		
METHYL CYCLOHEXANE	8.1	U		
METHYL TERT-BUTYL ETHER	8.1	U		
METHYLENE CHLORIDE	4.5	B	A	
O-XYLENE	8.1	U		
STYRENE	8.1	U		
TETRACHLOROETHENE	8.1	U		
TOLUENE	8.1	U		
TRANS-1,2-DICHLOROETHENE	8.1	U		
TRANS-1,3-DICHLOROPROPENE	8.1	U		
TRICHLOROETHENE	8.1	U		
TRICHLOROFUOROMETHANE	8.1	U		
VINYL CHLORIDE	8.1	U		

nsample 03TP06-0708-02
 samp_date 5/1/2007
 lab_id C7E020142002
 qc_type NM
 units UG/KG
 Pct_Solids 78.0
 DUP_OF:

Parameter	Result	Val	Qual	Code
1,1,1-TRICHLOROETHANE	6	U		
1,1,2,2-TETRACHLOROETHANE	6	U		
1,1,2-TRICHLOROETHANE	6	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	6	U		
1,1-DICHLOROETHANE	6	U		
1,1-DICHLOROETHENE	6	U		
1,2,3-TRICHLOROBENZENE	6	U		
1,2,4-TRICHLOROBENZENE	6	U		
1,2-DIBROMO-3-CHLOROPROPANE	6	U		
1,2-DIBROMOETHANE	6	U		
1,2-DICHLOROBENZENE	6	U		
1,2-DICHLOROETHANE	6	U		
1,2-DICHLOROPROPANE	6	U		
1,3-DICHLOROBENZENE	6	U		
1,4-DICHLOROBENZENE	6	U		
2-BUTANONE	6	U		
2-HEXANONE	6	U		
4-METHYL-2-PENTANONE	6	U		
ACETONE	24	U		
BENZENE	6	U		
BROMOCHLOROMETHANE	6	U		
BROMODICHLOROMETHANE	6	U		
BROMOFORM	6	U		
BROMOMETHANE	6	U		
CARBON DISULFIDE	6	U		
CARBON TETRACHLORIDE	6	U		
CHLOROBENZENE	6	U		
CHLORODIBROMOMETHANE	6	U		
CHLOROETHANE	6	U		
CHLOROFORM	6	U		
CHLOROMETHANE	6	U		
CIS-1,2-DICHLOROETHENE	6	U		

nsample 03TP06-0708-02
 samp_date 5/1/2007
 lab_id C7E020142002
 qc_type NM
 units UG/KG
 Pct_Solids 78.0
 DUP_OF:

Parameter	Result	Val	Qual	Code
CIS-1,3-DICHLOROPROPENE	6	U		
CYCLOHEXANE	6	U		
DICHLORODIFLUOROMETHANE	6	U		
ETHYLBENZENE	6	U		
ISOPROPYLBENZENE	6	U		
M+P-XYLENES	12	U		
METHYL ACETATE	6	U		
METHYL CYCLOHEXANE	6	U		
METHYL TERT-BUTYL ETHER	6	U		
METHYLENE CHLORIDE	3.3	B	A	
O-XYLENE	6	U		
STYRENE	6	U		
TETRACHLOROETHENE	6	U		
TOLUENE	6	U		
TRANS-1,2-DICHLOROETHENE	6	U		
TRANS-1,3-DICHLOROPROPENE	6	U		
TRICHLOROETHENE	6	U		
TRICHLOROFUOROMETHANE	6	U		
VINYL CHLORIDE	6	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OV

nsample 03TP06-0809-03
samp_date 5/1/2007
lab_id C7E020142003
qc_type NM
units UG/KG
Pct_Solids 71.0
DUP_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	7.5	U		
1,1,2,2-TETRACHLOROETHANE	7.5	U		
1,1,2-TRICHLOROETHANE	7.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	7.5	U		
1,1-DICHLOROETHANE	7.5	U		
1,1-DICHLOROETHENE	7.5	U		
1,2,3-TRICHLOROBENZENE	7.5	U		
1,2,4-TRICHLOROBENZENE	7.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	7.5	U		
1,2-DIBROMOETHANE	7.5	U		
1,2-DICHLOROBENZENE	7.5	U		
1,2-DICHLOROETHANE	7.5	U		
1,2-DICHLOROPROPANE	7.5	U		
1,3-DICHLOROBENZENE	7.5	U		
1,4-DICHLOROBENZENE	7.5	U		
2-BUTANONE	7.5	U		
2-HEXANONE	7.5	U		
4-METHYL-2-PENTANONE	7.5	U		
ACETONE	30	U		
BENZENE	7.5	U		
BROMOCHLOROMETHANE	7.5	U		
BROMODICHLOROMETHANE	7.5	U		
BROMOFORM	7.5	U		
BROMOMETHANE	7.5	U		
CARBON DISULFIDE	7.5	U		
CARBON TETRACHLORIDE	7.5	U		
CHLOROBENZENE	7.5	U		
CHLORODIBROMOMETHANE	7.5	U		
CHLOROETHANE	7.5	U		
CHLOROFORM	7.5	U		
CHLOROMETHANE	7.5	U		
CIS-1,2-DICHLOROETHENE	7.5	U		

nsample 03TP06-0809-03
samp_date 5/1/2007
lab_id C7E020142003
qc_type NM
units UG/KG
Pct_Solids 71.0
DUP_OF:

Parameter	Result	Val	Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	7.5	U		
CYCLOHEXANE	7.5	U		
DICHLORODIFLUOROMETHANE	7.5	U		
ETHYLBENZENE	7.5	U		
ISOPROPYLBENZENE	7.5	U		
M+P-XYLENES	15	U		
METHYL ACETATE	7.5	U		
METHYL CYCLOHEXANE	7.5	U		
METHYL TERT-BUTYL ETHER	7.5	U		
METHYLENE CHLORIDE	3.9	B	A	
O-XYLENE	7.5	U		
STYRENE	7.5	U		
TETRACHLOROETHENE	7.5	U		
TOLUENE	7.5	U		
TRANS-1,2-DICHLOROETHENE	7.5	U		
TRANS-1,3-DICHLOROPROPENE	7.5	U		
TRICHLOROETHENE	7.5	U		
TRICHLOROFLUOROMETHANE	7.5	U		
VINYL CHLORIDE	7.5	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: WATER DATA FRACTION: OV

nsample 03TB-02
 samp_date 5/1/2007
 lab_id C7E020142006
 qc_type NM
 units UG/L
 Pct_Solids
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U		
1,1,2,2-TETRACHLOROETHANE	5	U		
1,1,2-TRICHLOROETHANE	5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		
1,1-DICHLOROETHANE	5	U		
1,1-DICHLOROETHENE	5	U		
1,2,3-TRICHLOROBENZENE	5	U		
1,2,4-TRICHLOROBENZENE	5	U		
1,2-DIBROMO-3-CHLOROPROPANE	5	U		
1,2-DIBROMOETHANE	5	U		
1,2-DICHLOROBENZENE	5	U		
1,2-DICHLOROETHANE	5	U		
1,2-DICHLOROPROPANE	5	U		
1,3-DICHLOROBENZENE	5	U		
1,4-DICHLOROBENZENE	5	U		
2-BUTANONE	5	U		
2-HEXANONE	5	U		
4-METHYL-2-PENTANONE	5	U		
ACETONE	20	U		
BENZENE	5	U		
BROMOCHLOROMETHANE	5	U		
BROMODICHLOROMETHANE	5	U		
BROMOFORM	5	U		
BROMOMETHANE	5	U		
CARBON DISULFIDE	5	U		
CARBON TETRACHLORIDE	5	U		
CHLOROBENZENE	5	U		
CHLORODIBROMOMETHANE	5	U		
CHLOROETHANE	5	U		
CHLOROFORM	5	U		
CHLOROMETHANE	5	U		
CIS-1,2-DICHLOROETHENE	5	U		

nsample 03TB-02
 samp_date 5/1/2007
 lab_id C7E020142006
 qc_type NM
 units UG/L
 Pct_Solids
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U		
CYCLOHEXANE	5	U		
DICHLORODIFLUOROMETHANE	5	U		
ETHYLBENZENE	5	U		
ISOPROPYLBENZENE	5	U		
M+P-XYLENES	10	U		
METHYL ACETATE	5	U		
METHYL CYCLOHEXANE	5	U		
METHYL TERT-BUTYL ETHER	5	U		
METHYLENE CHLORIDE	5	U		
O-XYLENE	5	U		
STYRENE	5	U		
TETRACHLOROETHENE	5	U		
TOLUENE	5	U		
TRANS-1,2-DICHLOROETHENE	5	U		
TRANS-1,3-DICHLOROPROPENE	5	U		
TRICHLOROETHENE	5	U		
TRICHLOROFUOROMETHANE	5	U		
VINYL CHLORIDE	5	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OS

nsample 03TP06-0304-01
 samp_date 5/1/2007
 lab_id C7E020142001
 qc_type NM
 units UG/KG
 Pct_Solids 81.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
1,1-BIPHENYL	410	U		
1,2,4,5-TETRACHLOROBENZENE	410	U		
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U		
2,3,4,6-TETRACHLOROPHENOL	410	U		
2,4,5-TRICHLOROPHENOL	410	U		
2,4,6-TRICHLOROPHENOL	410	U		
2,4-DICHLOROPHENOL	410	U		
2,4-DIMETHYLPHENOL	410	U		
2,4-DINITROPHENOL	2000	U		
2,4-DINITROTOLUENE	410	U		
2,6-DINITROTOLUENE	410	U		
2-CHLORONAPHTHALENE	410	U		
2-CHLOROPHENOL	410	U		
2-METHYLNAPHTHALENE	410	U		
2-METHYLPHENOL	410	U		
2-NITROANILINE	2000	U		
2-NITROPHENOL	410	U		
3,3'-DICHLOROBENZIDINE	2000	U		
3-NITROANILINE	2000	U		
4,6-DINITRO-2-METHYLPHENOL	2000	U		
4-BROMOPHENYL PHENYL ETHER	410	U		
4-CHLORO-3-METHYLPHENOL	410	U		
4-CHLOROANILINE	410	U		
4-CHLOROPHENYL PHENYL ETHER	410	U		
4-METHYLPHENOL	410	U		
4-NITROANILINE	2000	U		
4-NITROPHENOL	2000	U		
ACENAPHTHENE	410	U		
ACENAPHTHYLENE	410	U		
ACETOPHENONE	410	U		
ANTHRACENE	410	U		
ATRAZINE	410	U		

nsample 03TP06-0304-01
 samp_date 5/1/2007
 lab_id C7E020142001
 qc_type NM
 units UG/KG
 Pct_Solids 81.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
BENZALDEHYDE	410	U		
BENZO(A)ANTHRACENE	410	U		
BENZO(A)PYRENE	410	U		
BENZO(B)FLUORANTHENE	410	U		
BENZO(G,H,I)PERYLENE	410	U		
BENZO(K)FLUORANTHENE	410	U		
BIS(2-CHLOROETHOXY)METHANE	410	U		
BIS(2-CHLOROETHYL)ETHER	410	U		
BIS(2-ETHYLHEXYL)PHTHALATE	130	J	P	
BUTYL BENZYL PHTHALATE	410	U		
CAPROLACTAM	410	U		
CARBAZOLE	410	U		
CHRYSENE	410	U		
DIBENZO(A,H)ANTHRACENE	410	U		
DIBENZOFURAN	410	U		
DIETHYL PHTHALATE	410	U		
DIMETHYL PHTHALATE	410	U		
DI-N-BUTYL PHTHALATE	410	U		
DI-N-OCTYL PHTHALATE	410	U		
FLUORANTHENE	410	U		
FLUORENE	410	U		
HEXACHLOROBENZENE	410	U		
HEXACHLOROBUTADIENE	410	U		
HEXACHLOROCYCLOPENTADIENE	2000	U		
HEXACHLOROETHANE	410	U		
INDENO(1,2,3-CD)PYRENE	410	U		
ISOPHORONE	410	U		
NAPHTHALENE	410	U		
NITROBENZENE	410	U		
N-NITROSO-DI-N-PROPYLAMINE	410	U		
N-NITROSODIPHENYLAMINE	410	U		
PENTACHLOROPHENOL	2000	U		

nsample 03TP06-0304-01
 samp_date 5/1/2007
 lab_id C7E020142001
 qc_type NM
 units UG/KG
 Pct_Solids 81.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
PHENANTHRENE	410	U		
PHENOL	410	U		
PYRENE	410	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP06-0607-04	nsample	03TP06-0607-04	nsample	03TP06-0607-04						
samp_date	5/1/2007	samp_date	5/1/2007	samp_date	5/1/2007						
lab_id	C7E020142004	lab_id	C7E020142004	lab_id	C7E020142004						
qc_type	NM	qc_type	NM	qc_type	NM						
units	UG/KG	units	UG/KG	units	UG/KG						
Pct_Solids	68.0	Pct_Solids	68.0	Pct_Solids	68.0						
DUP_OF:		DUP_OF:		DUP_OF:							
Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	480	U		BENZALDEHYDE	480	U		PHENANTHRENE	480	U	
1,2,4,5-TETRACHLOROBENZENE	480	U		BENZO(A)ANTHRACENE	480	U		PHENOL	480	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	480	U		BENZO(A)PYRENE	480	U		PYRENE	480	U	
2,3,4,6-TETRACHLOROPHENOL	480	U		BENZO(B)FLUORANTHENE	480	U					
2,4,5-TRICHLOROPHENOL	480	U		BENZO(G,H,I)PERYLENE	63	J	P				
2,4,6-TRICHLOROPHENOL	480	U		BENZO(K)FLUORANTHENE	480	U					
2,4-DICHLOROPHENOL	480	U		BIS(2-CHLOROETHOXY)METHANE	480	U					
2,4-DIMETHYLPHENOL	480	U		BIS(2-CHLOROETHYL)ETHER	480	U					
2,4-DINITROPHENOL	2300	U		BIS(2-ETHYLHEXYL)PHTHALATE	290	J	P				
2,4-DINITROTOLUENE	480	U		BUTYL BENZYL PHTHALATE	480	U					
2,6-DINITROTOLUENE	480	U		CAPROLACTAM	480	U					
2-CHLORONAPHTHALENE	480	U		CARBAZOLE	480	U					
2-CHLOROPHENOL	480	U		CHRYSENE	480	U					
2-METHYLNAPHTHALENE	480	U		DIBENZO(A,H)ANTHRACENE	480	U					
2-METHYLPHENOL	480	U		DIBENZOFURAN	480	U					
2-NITROANILINE	2300	U		DIETHYL PHTHALATE	480	U					
2-NITROPHENOL	480	U		DIMETHYL PHTHALATE	480	U					
3,3'-DICHLOROBENZIDINE	2300	U		DI-N-BUTYL PHTHALATE	480	U					
3-NITROANILINE	2300	U		DI-N-OCTYL PHTHALATE	480	U					
4,6-DINITRO-2-METHYLPHENOL	2300	U		FLUORANTHENE	480	U					
4-BROMOPHENYL PHENYL ETHER	480	U		FLUORENE	480	U					
4-CHLORO-3-METHYLPHENOL	480	U		HEXACHLOROBENZENE	480	U					
4-CHLOROANILINE	480	U		HEXACHLOROBUTADIENE	480	U					
4-CHLOROPHENYL PHENYL ETHER	480	U		HEXACHLOROCYCLOPENTADIENE	2300	U					
4-METHYLPHENOL	480	U		HEXACHLOROETHANE	480	U					
4-NITROANILINE	2300	U		INDENO(1,2,3-CD)PYRENE	480	U					
4-NITROPHENOL	2300	U		ISOPHORONE	480	U					
ACENAPHTHENE	480	U		NAPHTHALENE	480	U					
ACENAPHTHYLENE	480	U		NITROBENZENE	480	U					
ACETOPHENONE	480	U		N-NITROSO-DI-N-PROPYLAMINE	480	U					
ANTHRACENE	480	U		N-NITROSODIPHENYLAMINE	480	U					
ATRAZINE	480	U		PENTACHLOROPHENOL	2300	U					

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OS

nsample 03TP06-0708-02
 samp_date 5/1/2007
 lab_id C7E020142002
 qc_type NM
 units UG/KG
 Pct_Solids 78.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	2100	U	
1,2,4,5-TETRACHLOROBENZENE	2100	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	2100	U	
2,3,4,6-TETRACHLOROPHENOL	2100	U	
2,4,5-TRICHLOROPHENOL	2100	U	
2,4,6-TRICHLOROPHENOL	2100	U	
2,4-DICHLOROPHENOL	2100	U	
2,4-DIMETHYLPHENOL	2100	U	
2,4-DINITROPHENOL	10000	U	
2,4-DINITROTOLUENE	2100	U	
2,6-DINITROTOLUENE	2100	U	
2-CHLORONAPHTHALENE	2100	U	
2-CHLOROPHENOL	2100	U	
2-METHYLNAPHTHALENE	2100	U	
2-METHYLPHENOL	2100	U	
2-NITROANILINE	10000	U	
2-NITROPHENOL	2100	U	
3,3'-DICHLOROBENZIDINE	10000	U	
3-NITROANILINE	10000	U	
4,6-DINITRO-2-METHYLPHENOL	10000	U	
4-BROMOPHENYL PHENYL ETHER	2100	U	
4-CHLORO-3-METHYLPHENOL	2100	U	
4-CHLOROANILINE	2100	U	
4-CHLOROPHENYL PHENYL ETHER	2100	U	
4-METHYLPHENOL	2100	U	
4-NITROANILINE	10000	U	
4-NITROPHENOL	10000	U	
ACENAPHTHENE	2100	U	
ACENAPHTHYLENE	2100	U	
ACETOPHENONE	2100	U	
ANTHRACENE	2100	U	
ATRAZINE	2100	U	

nsample 03TP06-0708-02
 samp_date 5/1/2007
 lab_id C7E020142002
 qc_type NM
 units UG/KG
 Pct_Solids 78.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	2100	U	
BENZO(A)ANTHRACENE	230	J	P
BENZO(A)PYRENE	390	J	P
BENZO(B)FLUORANTHENE	290	J	P
BENZO(G,H,I)PERYLENE	2100	U	
BENZO(K)FLUORANTHENE	2100	U	
BIS(2-CHLOROETHOXY)METHANE	2100	U	
BIS(2-CHLOROETHYL)ETHER	2100	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2100	U	
BUTYL BENZYL PHTHALATE	2100	U	
CAPROLACTAM	2100	U	
CARBAZOLE	2100	U	
CHRYSENE	250	J	P
DIBENZO(A,H)ANTHRACENE	2100	U	
DIBENZOFURAN	2100	U	
DIETHYL PHTHALATE	2100	U	
DIMETHYL PHTHALATE	2100	U	
DI-N-BUTYL PHTHALATE	2100	U	
DI-N-OCTYL PHTHALATE	2100	U	
FLUORANTHENE	2100	U	
FLUORENE	2100	U	
HEXACHLOROBENZENE	2100	U	
HEXACHLOROBUTADIENE	2100	U	
HEXACHLOROCYCLOPENTADIENE	10000	U	
HEXACHLOROETHANE	2100	U	
INDENO(1,2,3-CD)PYRENE	2100	U	
ISOPHORONE	2100	U	
NAPHTHALENE	2100	U	
NITROBENZENE	2100	U	
N-NITROSO-DI-N-PROPYLAMINE	2100	U	
N-NITROSODIPHENYLAMINE	2100	U	
PENTACHLOROPHENOL	10000	U	

nsample 03TP06-0708-02
 samp_date 5/1/2007
 lab_id C7E020142002
 qc_type NM
 units UG/KG
 Pct_Solids 78.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	2100	U	
PHENOL	2100	U	
PYRENE	580	J	P

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: OS

nsample 03TP06-0809-03
 samp_date 5/1/2007
 lab_id C7E020142003
 qc_type NM
 units UG/KG
 Pct_Solids 71.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
1,1-BIPHENYL	2300	U		
1,2,4,5-TETRACHLOROBENZENE	2300	U		
2,2'-OXYBIS(1-CHLOROPROPANE)	2300	U		
2,3,4,6-TETRACHLOROPHENOL	2300	U		
2,4,5-TRICHLOROPHENOL	2300	U		
2,4,6-TRICHLOROPHENOL	2300	U		
2,4-DICHLOROPHENOL	2300	U		
2,4-DIMETHYLPHENOL	2300	U		
2,4-DINITROPHENOL	11000	U		
2,4-DINITROTOLUENE	2300	U		
2,6-DINITROTOLUENE	2300	U		
2-CHLORONAPHTHALENE	2300	U		
2-CHLOROPHENOL	2300	U		
2-METHYLNAPHTHALENE	2300	U		
2-METHYLPHENOL	2300	U		
2-NITROANILINE	11000	U		
2-NITROPHENOL	2300	U		
3,3'-DICHLOROBENZIDINE	11000	U		
3-NITROANILINE	11000	U		
4,6-DINITRO-2-METHYLPHENOL	11000	U		
4-BROMOPHENYL PHENYL ETHER	2300	U		
4-CHLORO-3-METHYLPHENOL	2300	U		
4-CHLOROANILINE	2300	U		
4-CHLOROPHENYL PHENYL ETHER	2300	U		
4-METHYLPHENOL	2300	U		
4-NITROANILINE	11000	U		
4-NITROPHENOL	11000	U		
ACENAPHTHENE	2300	U		
ACENAPHTHYLENE	2300	U		
ACETOPHENONE	2300	U		
ANTHRACENE	2300	U		
ATRAZINE	2300	U		

nsample 03TP06-0809-03
 samp_date 5/1/2007
 lab_id C7E020142003
 qc_type NM
 units UG/KG
 Pct_Solids 71.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
BENZALDEHYDE	2300	U		
BENZO(A)ANTHRACENE	2300	U		
BENZO(A)PYRENE	2300	U		
BENZO(B)FLUORANTHENE	2300	U		
BENZO(G,H,I)PERYLENE	2300	U		
BENZO(K)FLUORANTHENE	2300	U		
BIS(2-CHLOROETHOXY)METHANE	2300	U		
BIS(2-CHLOROETHYL)ETHER	2300	U		
BIS(2-ETHYLHEXYL)PHTHALATE	3300			
BUTYL BENZYL PHTHALATE	2300	U		
CAPROLACTAM	2300	U		
CARBAZOLE	2300	U		
CHRYSENE	2300	U		
DIBENZO(A,H)ANTHRACENE	2300	U		
DIBENZOFURAN	2300	U		
DIETHYL PHTHALATE	2300	U		
DIMETHYL PHTHALATE	2300	U		
DI-N-BUTYL PHTHALATE	2300	U		
DI-N-OCTYL PHTHALATE	220	J	P	
FLUORANTHENE	2300	U		
FLUORENE	2300	U		
HEXACHLOROBENZENE	2300	U		
HEXACHLOROBUTADIENE	2300	U		
HEXACHLOROCYCLOPENTADIENE	11000	U		
HEXACHLOROETHANE	2300	U		
INDENO(1,2,3-CD)PYRENE	2300	U		
ISOPHORONE	2300	U		
NAPHTHALENE	2300	U		
NITROBENZENE	2300	U		
N-NITROSO-DI-N-PROPYLAMINE	2300	U		
N-NITROSODIPHENYLAMINE	2300	U		
PENTACHLOROPHENOL	11000	U		

nsample 03TP06-0809-03
 samp_date 5/1/2007
 lab_id C7E020142003
 qc_type NM
 units UG/KG
 Pct_Solids 71.0
 DUP_OF:

Parameter	Result	Val	Qual	Qual Code
PHENANTHRENE	2300	U		
PHENOL	2300	U		
PYRENE	2300	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	03TP06-0304-01
samp_date	5/1/2007
lab_id	C7E020142001
qc_type	NM
units	UG/KG
Pct_Solids	81.0
DUP_OF:	

nsample	03TP06-0607-04
samp_date	5/1/2007
lab_id	C7E020142004
qc_type	NM
units	UG/KG
Pct_Solids	68.0
DUP_OF:	

nsample	03TP06-0708-02
samp_date	5/1/2007
lab_id	C7E020142002
qc_type	NM
units	UG/KG
Pct_Solids	78.0
DUP_OF:	

Parameter	Result	Val	Qual	Code
4,4'-DDD	0.47	B	A	
4,4'-DDE	2.4			
4,4'-DDT	2.2	J	U	
ALDRIN	2.1	U		
ALPHA-BHC	2.1	U		
ALPHA-CHLORDANE	2.1	U		
AROCLOR-1016	20	U		
AROCLOR-1221	20	U		
AROCLOR-1232	20	U		
AROCLOR-1242	20	U		
AROCLOR-1248	20	U		
AROCLOR-1254	20	U		
AROCLOR-1260	20	U		
AROCLOR-1262	20	U		
AROCLOR-1268	20	U		
BETA-BHC	2.1	U		
DELTA-BHC	0.96	J	P	
DIELDRIN	10			
ENDOSULFAN I	2.1	U		
ENDOSULFAN II	2.1	U		
ENDOSULFAN SULFATE	2.1	U		
ENDRIN	2.1	U		
ENDRIN ALDEHYDE	0.52	J	PU	
ENDRIN KETONE	2.1	U		
GAMMA-BHC (LINDANE)	0.69	J	PU	
GAMMA-CHLORDANE	1.2	J	PU	
HEPTACHLOR	2.1	U		
HEPTACHLOR EPOXIDE	1.5	J	P	
METHOXYCHLOR	1	J	PU	
TOXAPHENE	82	U		

Parameter	Result	Val	Qual	Code
4,4'-DDD	72000			
4,4'-DDE	8700			
4,4'-DDT	270000			
ALDRIN	2500	U		
ALPHA-BHC	2500	U		
ALPHA-CHLORDANE	2500	U		
AROCLOR-1016	490	U		
AROCLOR-1221	490	U		
AROCLOR-1232	490	U		
AROCLOR-1242	490	U		
AROCLOR-1248	490	U		
AROCLOR-1254	490	U		
AROCLOR-1260	490	U		
AROCLOR-1262	490	U		
AROCLOR-1268	490	U		
BETA-BHC	2500	U		
DELTA-BHC	2500	U		
DIELDRIN	10000			
ENDOSULFAN I	580	J	P	
ENDOSULFAN II	2500	U		
ENDOSULFAN SULFATE	2500	U		
ENDRIN	2500	U		
ENDRIN ALDEHYDE	2500	U		
ENDRIN KETONE	2500	U		
GAMMA-BHC (LINDANE)	2500	U		
GAMMA-CHLORDANE	620	J	PU	
HEPTACHLOR	2500	U		
HEPTACHLOR EPOXIDE	390	J	PU	
METHOXYCHLOR	4800	U		
TOXAPHENE	98000	U		

Parameter	Result	Val	Qual	Code
4,4'-DDD	24	J	U	
4,4'-DDE	13	J	U	
4,4'-DDT	2.2	U		
ALDRIN	9.4	J	U	
ALPHA-BHC	2.2	U		
ALPHA-CHLORDANE	2.2	U		
AROCLOR-1016	21	U		
AROCLOR-1221	21	U		
AROCLOR-1232	21	U		
AROCLOR-1242	21	U		
AROCLOR-1248	21	U		
AROCLOR-1254	450			
AROCLOR-1260	550			
AROCLOR-1262	21	U		
AROCLOR-1268	21	U		
BETA-BHC	2.2	U		
DELTA-BHC	2.2	U		
DIELDRIN	30			
ENDOSULFAN I	2.2	U		
ENDOSULFAN II	2.2	U		
ENDOSULFAN SULFATE	5.9	J	U	
ENDRIN	2.2	U		
ENDRIN ALDEHYDE	2.2	U		
ENDRIN KETONE	5.2	J	U	
GAMMA-BHC (LINDANE)	3	J	U	
GAMMA-CHLORDANE	16	J	U	
HEPTACHLOR	8	J	U	
HEPTACHLOR EPOXIDE	2.2	U		
METHOXYCHLOR	18			
TOXAPHENE	86	U		

PROJ_NO: 2192

SDG: C7E020142 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample 03TP06-0809-03
samp_date 5/1/2007
lab_id C7E020142003
qc_type NM
units UG/KG
Pct_Solids 71.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	57	J	U
4,4'-DDE	11	J	U
4,4'-DDT	69	J	U
ALDRIN	9.7		
ALPHA-BHC	2.4	U	
ALPHA-CHLORDANE	2.4	U	
AROCLOL-1016	24	U	
AROCLOL-1221	24	U	
AROCLOL-1232	24	U	
AROCLOL-1242	24	U	
AROCLOL-1248	24	U	
AROCLOL-1254	620		
AROCLOL-1260	600		
AROCLOL-1262	24	U	
AROCLOL-1268	24	U	
BETA-BHC	2.4	U	
DELTA-BHC	0.94	J	PU
DIELDRIN	68		
ENDOSULFAN I	1.4	J	PU
ENDOSULFAN II	16	J	U
ENDOSULFAN SULFATE	19		
ENDRIN	17	J	U
ENDRIN ALDEHYDE	2.4	U	
ENDRIN KETONE	2.4	U	
GAMMA-BHC (LINDANE)	3.4	J	U
GAMMA-CHLORDANE	18	J	U
HEPTACHLOR	2.4	U	
HEPTACHLOR EPOXIDE	1.8	J	PU
METHOXYCHLOR	24	J	U
TOXAPHENE	95	U	

Data Qualifier Key:

- B - Positive result is considered to be an artifact of blank contamination and should not be considered present.
- J - Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
- K - Positive result is considered biased high due to exceedance of technical quality control criteria.
- L - Positive result is considered biased low due to exceedance of technical quality control criteria.
- U - Value is a non-detected result as reported by the laboratory.
- UL - Non-detected result is considered biased low due to exceedance of technical quality control criteria.
- UR - Non-detected result is considered unusable due to exceedance of technical quality control criteria.

Qualifier Codes:

- a = Lab Blank Contamination
- b = Field Blank Contamination
- c = Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- d = MS/MSD Noncompliance
- e = LSC/LSCD Noncompliance
- f = Laboratory Duplicate Imprecision
- g = Field Duplicate Imprecision
- h = Holding Time Exceedance
- i = ICP Serial Dilution Noncompliance
- j = GFAA PDS – GFAA MSA's $r < 0.995$ (correlation coefficient)
- k = ICP Interference – include ICSAB %Rs
- l = Instrument Calibration Range Exceedance
- m = Sample Preservation
- n = Internal Standard Noncompliance
- o = Poor Instrument Performance (i.e. baseline drifting)
- p = Uncertainty Near Detection Limit (<2 x IDL for inorganics and < CRQL for organics)
- q = Other Problems (can encompass of number of issues)
- r = Surrogates Recovery Noncompliance
- s = Pesticide/PCB Resolution
- t = % Breakdown Noncompliance for DDT and Endrin
- u = Pesticide/PCB % Difference Between Columns for Positive Results
- v = Non-linear Calibrations, Tuning $r < 0.995$ (correlation coefficient)

APPENDIX B
Laboratory Analytical Results

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC/MS Volatiles

Lot-Sample #....: C7E020142-001 Work Order #....: JV37P1AC Matrix.....: SOLID
 Date Sampled....: 05/01/07 Date Received...: 05/02/07 MS Run #.....: 7131136
 Prep Date.....: 05/11/07 Analysis Date...: 05/11/07
 Prep Batch #....: 7131197 Analysis Time...: 13:30
 Dilution Factor: 0.83 Initial Wgt/Vol: 6.03 g Final Wgt/Vol..: 5 mL
 % Moisture.....: 19 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	5.1	ug/kg	1.2
Chlorodibromomethane	ND	5.1	ug/kg	0.94
o-Xylene	ND	5.1	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.5
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1.1
Acetone	ND	20	ug/kg	1.2
Benzene	ND	5.1	ug/kg	1.1
Bromodichloromethane	ND	5.1	ug/kg	0.99
Bromoform	ND	5.1	ug/kg	1.0
Bromomethane	ND	5.1	ug/kg	1.3
2-Butanone	ND	5.1	ug/kg	0.99
Carbon disulfide	ND	5.1	ug/kg	1.2
Carbon t trachloride	ND	5.1	ug/kg	0.91
Chlorobenzene	ND	5.1	ug/kg	1.1
Chloroethane	ND	5.1	ug/kg	1.5
Chloroform	ND	5.1	ug/kg	1.1
Chloromethane	ND	5.1	ug/kg	1.1
Cyclohexane	ND	5.1	ug/kg	1.0
1,2-Dibromo-3-chloro-propane	ND	5.1	ug/kg	0.86
1,2-Dibromoethane	ND	5.1	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,2-Dichlorobenzene	ND	5.1	ug/kg	1.1
Dichlorodifluoromethane	ND	5.1	ug/kg	1.3
1,1-Dichloroethane	ND	5.1	ug/kg	0.99
1,2-Dichloroethane	ND	5.1	ug/kg	1.1
1,1-Dichloroethene	ND	5.1	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1.2
1,2-Dichloropropane	ND	5.1	ug/kg	1.1
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.91
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.89
Ethylbenzene	ND	5.1	ug/kg	1.2
2-Hexanone	ND	5.1	ug/kg	0.81
Isopropylbenzene	ND	5.1	ug/kg	1.1
M thyl acetate	ND	5.1	ug/kg	1.1

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC/MS Volatiles

Lot-Sample #....: C7E020142-001 Work Order #....: JV37P1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	3.5 (J,B)	5.1	ug/kg	0.78
Methylcyclohexane	ND	5.1	ug/kg	1.1
4-Methyl-2-pentanone	ND	5.1	ug/kg	0.88
Methyl tert-butyl ether	ND	5.1	ug/kg	0.94
Styrene	ND	5.1	ug/kg	1.1
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1.2
1,2,4-Trichloro- benzene	ND	5.1	ug/kg	1.1
Tetrachloroethylene	ND	5.1	ug/kg	1.3
1,1,1-Trichloroethane	ND	5.1	ug/kg	1.0
1,1,2-Trichloroethane	ND	5.1	ug/kg	1.1
Trichloroethylene	ND	5.1	ug/kg	1.1
Trichlorofluoromethane	ND	5.1	ug/kg	1.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.1	ug/kg	1.3
Toluene	ND	5.1	ug/kg	0.81
Vinyl chloride	ND	5.1	ug/kg	1.1
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	75	(70 - 130)		
Toluene-d8	100	(85 - 115)		
4-Bromofluorobenzene	90	(85 - 120)		
Dibromofluoromethane	85	(70 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0607-04

GC/MS Volatiles

Lot-Sample #....: C7E020142-004	Work Order #....: JV38J1AM	Matrix.....: SOLID
Date Sampled...: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7131136
Prep Date.....: 05/11/07	Analysis Date...: 05/11/07	
Prep Batch #....: 7131197	Analysis Time...: 14:18	
Dilution Factor: 1.11	Initial Wgt/Vol: 4.49 g	Final Wgt/Vol...: 5 mL
% Moisture.....: 32	Analyst ID.....: 034635	Instrument ID...: HP4
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	8.1	ug/kg	1.9
Chlorodibromomethane	ND	8.1	ug/kg	1.5
o-Xylene	ND	8.1	ug/kg	1.7
m-Xylene & p-Xylene	ND	16	ug/kg	4.0
1,2,3-Trichlorobenzene	ND	8.1	ug/kg	1.8
Acetone	ND	33	ug/kg	1.9
Benzene	ND	8.1	ug/kg	1.7
Bromodichloromethane	ND	8.1	ug/kg	1.6
Bromoform	ND	8.1	ug/kg	1.7
Bromomethane	ND	8.1	ug/kg	2.1
2-Butanone	ND	8.1	ug/kg	1.6
Carbon disulfide	ND	8.1	ug/kg	2.0
Carbon tetrachloride	ND	8.1	ug/kg	1.5
Chlorobenzene	ND	8.1	ug/kg	1.8
Chloroethane	ND	8.1	ug/kg	2.3
Chloroform	ND	8.1	ug/kg	1.7
Chloromethane	ND	8.1	ug/kg	1.8
Cyclohexane	ND	8.1	ug/kg	1.6
1,2-Dibromo-3-chloro-propane	ND	8.1	ug/kg	1.4
1,2-Dibromoethane	ND	8.1	ug/kg	1.7
1,3-Dichlorobenzene	ND	8.1	ug/kg	1.7
1,4-Dichlorobenzene	ND	8.1	ug/kg	1.8
1,2-Dichlorobenzene	ND	8.1	ug/kg	1.8
Dichlorodifluoromethane	ND	8.1	ug/kg	2.1
1,1-Dichloroethane	ND	8.1	ug/kg	1.6
1,2-Dichloroethane	ND	8.1	ug/kg	1.8
1,1-Dichloroethene	ND	8.1	ug/kg	1.9
cis-1,2-Dichloroethene	ND	8.1	ug/kg	1.8
trans-1,2-Dichloroethene	ND	8.1	ug/kg	1.9
1,2-Dichloropropane	ND	8.1	ug/kg	1.8
cis-1,3-Dichloropropene	ND	8.1	ug/kg	1.5
trans-1,3-Dichloropropene	ND	8.1	ug/kg	1.4
Ethylbenzene	ND	8.1	ug/kg	1.9
2-Hexanone	ND	8.1	ug/kg	1.3
Isopropylbenzene	ND	8.1	ug/kg	1.7
Methyl acetate	ND	8.1	ug/kg	1.7

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0607-04

GC/MS Volatiles

Lot-Sample #....: C7E020142-004 Work Order #....: JV38J1AM Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Methylene chloride	4.5 J,B	8.1	ug/kg	1.2
Methylcyclohexane	ND	8.1	ug/kg	1.8
4-Methyl-2-pentanone	ND	8.1	ug/kg	1.4
Methyl tert-butyl ether	ND	8.1	ug/kg	1.5
Styrene	ND	8.1	ug/kg	1.8
1,1,2,2-Tetrachloroethane	ND	8.1	ug/kg	1.8
1,2,4-Trichloro- benzene	ND	8.1	ug/kg	1.7
Tetrachloroethene	ND	8.1	ug/kg	2.1
1,1,1-Trichloroethane	ND	8.1	ug/kg	1.7
1,1,2-Trichloroethane	ND	8.1	ug/kg	1.7
Trichloroethene	ND	8.1	ug/kg	1.8
Trichlorofluoromethane	ND	8.1	ug/kg	2.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	8.1	ug/kg	2.0
Toluene	ND	8.1	ug/kg	1.3
Vinyl chloride	ND	8.1	ug/kg	1.8
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(70 - 130)	(85 - 115)	(85 - 120)
1,2-Dichloroethane-d4	84			
Toluene-d8	99			
4-Bromofluorobenzene	92			
Dibromofluoromethane	88			

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC/MS Volatiles

Lot-Sample #....: C7E020142-002	Work Order #....: JV3771AM	Matrix.....: SOLID
Date Sampled....: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7131136
Prep Date.....: 05/11/07	Analysis Date...: 05/11/07	
Prep Batch #....: 7131197	Analysis Time...: 13:54	
Dilution Factor: 0.94	Initial Wgt/Vol: 5.32 g	Final Wgt/Vol...: 5 mL
% Moisture.....: 22	Analyst ID.....: 034635	Instrument ID..: HP4
	Method.....: SW846 8260B	

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
Bromochloromethane	ND	6.0	ug/kg	1.4
Chlorodibromomethane	ND	6.0	ug/kg	1.1
o-Xylene	ND	6.0	ug/kg	1.3
m-Xylene & p-Xylene	ND	12	ug/kg	3.0
1,2,3-Trichlorobenzene	ND	6.0	ug/kg	1.3
Ac tone	ND	24	ug/kg	1.4
Benzene	ND	6.0	ug/kg	1.2
Bromodichloromethane	ND	6.0	ug/kg	1.2
Bromoform	ND	6.0	ug/kg	1.2
Bromomethane	ND	6.0	ug/kg	1.5
2-Butanone	ND	6.0	ug/kg	1.2
Carbon disulfide	ND	6.0	ug/kg	1.5
Carbon tetrachloride	ND	6.0	ug/kg	1.1
Chlorobenzene	ND	6.0	ug/kg	1.3
Chloroethane	ND	6.0	ug/kg	1.7
Chloroform	ND	6.0	ug/kg	1.3
Chloromethane	ND	6.0	ug/kg	1.3
Cyclohexane	ND	6.0	ug/kg	1.2
1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	1.0
1,2-Dibromoethane	ND	6.0	ug/kg	1.2
1,3-Dichlorobenzene	ND	6.0	ug/kg	1.3
1,4-Dichlorobenzene	ND	6.0	ug/kg	1.3
1,2-Dichlorobenzene	ND	6.0	ug/kg	1.3
Dichlorodifluoromethane	ND	6.0	ug/kg	1.5
1,1-Dichloroethane	ND	6.0	ug/kg	1.2
1,2-Dichloroethane	ND	6.0	ug/kg	1.3
1,1-Dichloroethene	ND	6.0	ug/kg	1.4
cis-1,2-Dichloroethene	ND	6.0	ug/kg	1.3
trans-1,2-Dichloroethene	ND	6.0	ug/kg	1.4
1,2-Dichloropropane	ND	6.0	ug/kg	1.3
cis-1,3-Dichloropropene	ND	6.0	ug/kg	1.1
trans-1,3-Dichloropropene	ND	6.0	ug/kg	1.0
Ethylbenzene	ND	6.0	ug/kg	1.4
2-Hexanone	ND	6.0	ug/kg	0.95
Isopropylbenzene	ND	6.0	ug/kg	1.3
Methyl acetate	ND	6.0	ug/kg	1.3

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC/MS Volatiles

Lot-Sample #....: C7E020142-002 Work Order #....: JV3771AM Matrix.....: SOLID

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
Methylene chloride	3.3 J,B	6.0	ug/kg	0.92
Methylcyclohexane	ND	6.0	ug/kg	1.3
4-Methyl-2-pentanone	ND	6.0	ug/kg	1.0
Methyl tert-butyl ether	ND	6.0	ug/kg	1.1
Styrene	ND	6.0	ug/kg	1.3
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	1.4
1,2,4-Trichloro-benzene	ND	6.0	ug/kg	1.2
Tetrachloroethene	ND	6.0	ug/kg	1.6
1,1,1-Trichloroethane	ND	6.0	ug/kg	1.2
1,1,2-Trichloroethane	ND	6.0	ug/kg	1.3
Trichloroethene	ND	6.0	ug/kg	1.3
Trichlorofluoromethane	ND	6.0	ug/kg	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.0	ug/kg	1.5
Toluene	ND	6.0	ug/kg	0.95
Vinyl chloride	ND	6.0	ug/kg	1.3
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
1,2-Dichloroethane-d4	80		(70 - 130)	
Toluene-d8	102		(85 - 115)	
4-Bromofluorobenzene	92		(85 - 120)	
Dibromofluoromethane	87		(70 - 130)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC/MS Volatiles

Lot-Sample #....: C7E020142-003	Work Order #....: JV38A1AM	Matrix.....: SOLID
Date Sampled....: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7131136
Prep Date.....: 05/11/07	Analysis Date...: 05/11/07	
Prep Batch #....: 7131197	Analysis Time...: 10:38	
Dilution Factor: 1.06	Initial Wgt/Vol: 4.73 g	Final Wgt/Vol...: 5 mL
% Moisture.....: 29	Analyst ID.....: 034635	Instrument ID..: HP4
	Method.....: SW846 8260B	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Bromochloromethane	ND	7.5	ug/kg	1.8
Chlorodibromomethane	ND	7.5	ug/kg	1.4
o-Xylene	ND	7.5	ug/kg	1.6
m-Xylene & p-Xylene	ND	15	ug/kg	3.7
1, 2, 3-Trichlorobenzene	ND	7.5	ug/kg	1.7
Acetone	ND	30	ug/kg	1.8
Benzene	ND	7.5	ug/kg	1.6
Bromodichloromethane	ND	7.5	ug/kg	1.5
Bromoform	ND	7.5	ug/kg	1.5
Bromomethane	ND	7.5	ug/kg	1.9
2-Butanone	ND	7.5	ug/kg	1.5
Carbon disulfide	ND	7.5	ug/kg	1.8
Carbon tetrachloride	ND	7.5	ug/kg	1.3
Chlorobenzene	ND	7.5	ug/kg	1.7
Chloroethane	ND	7.5	ug/kg	2.2
Chloroform	ND	7.5	ug/kg	1.6
Chloromethane	ND	7.5	ug/kg	1.7
Cyclohexane	ND	7.5	ug/kg	1.5
1, 2-Dibromo-3-chloropropane	ND	7.5	ug/kg	1.3
1, 2-Dibromoethane	ND	7.5	ug/kg	1.6
1, 3-Dichlorobenzene	ND	7.5	ug/kg	1.6
1, 4-Dichlorobenzene	ND	7.5	ug/kg	1.7
1, 2-Dichlorobenzene	ND	7.5	ug/kg	1.6
Dichlorodifluoromethane	ND	7.5	ug/kg	1.9
1, 1-Dichloroethane	ND	7.5	ug/kg	1.5
1, 2-Dichloroethane	ND	7.5	ug/kg	1.6
1, 1-Dichloroethene	ND	7.5	ug/kg	1.8
cis-1, 2-Dichloroethene	ND	7.5	ug/kg	1.6
trans-1, 2-Dichloroethene	ND	7.5	ug/kg	1.7
1, 2-Dichloropropane	ND	7.5	ug/kg	1.7
cis-1, 3-Dichloropropene	ND	7.5	ug/kg	1.3
trans-1, 3-Dichloropropene	ND	7.5	ug/kg	1.3
Ethylbenzene	ND	7.5	ug/kg	1.8
2-Hexanone	ND	7.5	ug/kg	1.2
Isopropylbenzene	ND	7.5	ug/kg	1.6
Methyl acetate	ND	7.5	ug/kg	1.6

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC/MS Volatiles

Lot-Sample #....: C7E020142-003 Work Order #....: JV38A1AM Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	3.9 J,B	7.5	ug/kg	1.1
Methylcyclohexane	ND	7.5	ug/kg	1.7
4-Methyl-2-pentanone	ND	7.5	ug/kg	1.3
Methyl tert-butyl ether	ND	7.5	ug/kg	1.4
Styrene	ND	7.5	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	7.5	ug/kg	1.7
1,2,4-Trichloro- benzene	ND	7.5	ug/kg	1.5
Tetrachloroethylene	ND	7.5	ug/kg	1.9
1,1,1-Trichloroethane	ND	7.5	ug/kg	1.5
1,1,2-Trichloroethane	ND	7.5	ug/kg	1.6
Trichloroethene	ND	7.5	ug/kg	1.7
Trichlorofluoromethane	ND	7.5	ug/kg	2.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	7.5	ug/kg	1.8
Toluene	ND	7.5	ug/kg	1.2
Vinyl chloride	ND	7.5	ug/kg	1.7
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
1,2-Dichloroethane-d4	78	(70 - 130)		
Toluene-d8	94	(85 - 115)		
4-Bromofluorobenzene	90	(85 - 120)		
Dibromofluoromethane	84	(70 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J. Estimated: The analyte was positively identified; the quantitation is estimated.

B. Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TB-02

GC/MS Volatiles

Lot-Sample #....:	C7E020142-006	Work Order #....:	JV38V1AA	Matrix.....:	WATER
Date Sampled....:	05/01/07	Date Received...:	05/02/07	MS Run #.....:	7134053
Prep Date.....:	05/14/07	Analysis Date...:	05/14/07		
Prep Batch #....:	7134083	Analysis Time...:	08:26		
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol...:	5 mL
Analyst ID.....:	010099	Instrument ID...:	HP3		
		Method.....:	SW846 8260B		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Chlorodibromomethane	ND	5.0	ug/L	0.50
o-Xylene	ND	5.0	ug/L	0.89
m-Xylene & p-Xylene	ND	10	ug/L	1.6
1,2,3-Trichlorobenzene	ND	5.0	ug/L	0.33
Bromoform	ND	5.0	ug/L	0.96
Acetone	ND	20	ug/L	0.83
Benzene	ND	5.0	ug/L	0.81
Bromodichloromethane	ND	5.0	ug/L	0.58
Bromomethane	ND	5.0	ug/L	0.37
2-Butanone	ND	5.0	ug/L	0.73
Carbon disulfide	ND	5.0	ug/L	1.1
Carbon tetrachloride	ND	5.0	ug/L	0.91
Chlorobenzene	ND	5.0	ug/L	0.71
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.78
Chloromethane	ND	5.0	ug/L	0.87
Cyclohexane	ND	5.0	ug/L	1.1
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.3
1,2-Dibromoethane	ND	5.0	ug/L	0.64
1,3-Dichlorobenzene	ND	5.0	ug/L	0.66
1,4-Dichlorobenzene	ND	5.0	ug/L	0.60
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.64
1,1-Dichloroethene	ND	5.0	ug/L	0.87
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.90
1,2-Dichloropropane	ND	5.0	ug/L	0.67
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.79
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.57
Ethylbenzene	ND	5.0	ug/L	0.58
2-Hexanone	ND	5.0	ug/L	0.45
Isopropylbenzene	ND	5.0	ug/L	0.72
Methyl acetate	ND	5.0	ug/L	0.47

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Tetra Tech NUS, Inc

Client Sample ID: 03TB-02

GC/MS Volatiles

Lot-Sample #....: C7E020142-006 Work Order #....: JV38V1AA Matrix.....: WATER

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	ND	5.0	ug/L	0.75
Methylcyclohexane	ND	5.0	ug/L	1.1
4-Methyl-2-pentanone	ND	5.0	ug/L	0.46
Methyl tert-butyl ether	ND	5.0	ug/L	0.77
Styrene	ND	5.0	ug/L	0.80
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.63
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.42
Tetrachloroethene	ND	5.0	ug/L	0.57
1,1,1-Trichloroethane	ND	5.0	ug/L	0.79
1,1,2-Trichloroethane	ND	5.0	ug/L	0.79
Trichloroethene	ND	5.0	ug/L	0.88
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.0	ug/L	1.2
Toluene	ND	5.0	ug/L	0.80
Vinyl chloride	ND	5.0	ug/L	0.94

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
	<u>RECOVERY</u>		
1,2-Dichloroethane-d4	102	(70 - 120)	
Toluene-d8	106	(85 - 120)	
4-Bromofluorobenzene	101	(75 - 120)	
Dibromofluoromethane	100	(85 - 115)	

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-001 Work Order #....: JV37P1AD Matrix.....: SOLID
 Date Sampled....: 05/01/07 09:25 Date Received...: 05/02/07 10:30 MS Run #.....: 7124004
 Prep Date.....: 05/04/07 Analysis Date...: 05/25/07
 Prep Batch #....: 7124012 Analysis Time...: 09:32
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 19 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro- benzene	ND	410	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	410	ug/kg	29
Acenaphthene	ND	410	ug/kg	32
Acenaphthylene	ND	410	ug/kg	37
Acetophenone	ND	410	ug/kg	61
Anthracene	ND	410	ug/kg	39
Atrazine	ND	410	ug/kg	58
Benzo(a)anthracene	ND	410	ug/kg	40
Benzo(a)pyrene	ND	410	ug/kg	37
Benzo(b)fluoranthene	ND	410	ug/kg	55
Benzo(ghi)perylene	ND	410	ug/kg	35
Benzo(k)fluoranthene	ND	410	ug/kg	52
Benzaldehyde	ND	410	ug/kg	83
1,1'-Biphenyl	ND	410	ug/kg	47
bis(2-Chloroethoxy) methane	ND	410	ug/kg	46
bis(2-Chloroethyl)- ether	ND	410	ug/kg	46
bis(2-Ethylhexyl) phthalate	130 J	410	ug/kg	40
4-Bromophenyl phenyl ether	ND	410	ug/kg	34
Butyl benzyl phthalate	ND	410	ug/kg	43
Caprolactam	ND	410	ug/kg	59
Carbazole	ND	410	ug/kg	36
4-Chloroaniline	ND	410	ug/kg	28
4-Chloro-3-methylphenol	ND	410	ug/kg	35
2-Chloronaphthalene	ND	410	ug/kg	36
2-Chlorophenol	ND	410	ug/kg	70
4-Chlorophenyl phenyl ether	ND	410	ug/kg	28
Chrysene	ND	410	ug/kg	39
Dibenz(a,h)anthracene	ND	410	ug/kg	27
Dibenzofuran	ND	410	ug/kg	38
3,3'-Dichlorobenzidine	ND	2000	ug/kg	24
2,4-Dichlorophenol	ND	410	ug/kg	42

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-001 Work Order #....: JV37P1AD Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diethyl phthalate	ND	410	ug/kg	37
2,4-Dimethylphenol	ND	410	ug/kg	35
Dimethyl phthalate	ND	410	ug/kg	33
Di-n-butyl phthalate	ND	410	ug/kg	36
4,6-Dinitro- 2-methylphenol	ND	2000	ug/kg	26
2,4-Dinitrophenol	ND	2000	ug/kg	610
2,4-Dinitrotoluene	ND	410	ug/kg	37
2,6-Dinitrotoluene	ND	410	ug/kg	30
Di-n-octyl phthalate	ND	410	ug/kg	35
Fluoranthene	ND	410	ug/kg	38
Fluorene	ND	410	ug/kg	35
Hexachlorobenzene	ND	410	ug/kg	33
Hexachlorobutadiene	ND	410	ug/kg	56
Hexachlorocyclopenta- diene	ND	2000	ug/kg	27
Hexachloroethane	ND	410	ug/kg	56
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	29
Isophorone	ND	410	ug/kg	53
2-Methylnaphthalene	ND	410	ug/kg	42
2-Methylphenol	ND	410	ug/kg	60
4-Methylphenol	ND	410	ug/kg	91
Naphthalene	ND	410	ug/kg	42
2-Nitroaniline	ND	2000	ug/kg	38
3-Nitroaniline	ND	2000	ug/kg	38
4-Nitroaniline	ND	2000	ug/kg	23
Nitrobenzene	ND	410	ug/kg	51
2-Nitrophenol	ND	410	ug/kg	56
4-Nitrophenol	ND	2000	ug/kg	28
N-Nitrosodi-n-propyl- amine	ND	410	ug/kg	41
N-Nitrosodiphenylamine	ND	410	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	410	ug/kg	66
Pentachlorophenol	ND	2000	ug/kg	28
Phenanthrene	ND	410	ug/kg	39
Phenol	ND	410	ug/kg	44
Pyrene	ND	410	ug/kg	44
2,4,5-Trichloro- phenol	ND	410	ug/kg	39
2,4,6-Trichloro- phenol	ND	410	ug/kg	28

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-001 Work Order #....: JV37P1AD Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	66	(45 - 105)
2-Fluorophenol	50	(35 - 105)
Phenol-d5	48	(40 - 100)
2,4,6-Tribromophenol	68	(35 - 125)
Nitrobenzene-d5	67	(35 - 100)
Terphenyl-d14	80	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0607-04

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-004 Work Order #....: JV38J1AN Matrix.....: SOLID
 Date Sampled....: 05/01/07 13:30 Date Received...: 05/02/07 10:30 MS Run #.....: 7124004
 Prep Date.....: 05/04/07 Analysis Date...: 05/24/07
 Prep Batch #....: 7124012 Analysis Time...: 16:19
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 32 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	480	ug/kg	29
2,3,4,6-Tetrachlorophenol	ND	480	ug/kg	34
Acenaphthene	ND	480	ug/kg	38
Acenaphthylene	ND	480	ug/kg	44
Acetophenone	ND	480	ug/kg	72
Anthracene	ND	480	ug/kg	46
Atrazine	ND	480	ug/kg	70
Benzo(a)anthracene	ND	480	ug/kg	48
Benzo(a)pyrene	ND	480	ug/kg	44
Benzo(b)fluoranthene	ND	480	ug/kg	65
Benzo(ghi)perylene	63 J	480	ug/kg	42
Benzo(k)fluoranthene	ND	480	ug/kg	63
Benzaldehyde	ND	480	ug/kg	100
1,1'-Biphenyl	ND	480	ug/kg	56
bis(2-Chloroethoxy)-methane	ND	480	ug/kg	55
bis(2-Chloroethyl)-ether	ND	480	ug/kg	55
bis(2-Ethylhexyl)phthalate	290 J	480	ug/kg	47
4-Bromophenyl phenyl ether	ND	480	ug/kg	40
Butyl benzyl phthalate	ND	480	ug/kg	52
Caprolactam	ND	480	ug/kg	70
Carbazole	ND	480	ug/kg	43
4-Chloroaniline	ND	480	ug/kg	33
4-Chloro-3-methylphenol	ND	480	ug/kg	41
2-Chloronaphthalene	ND	480	ug/kg	44
2-Chlorophenol	ND	480	ug/kg	84
4-Chlorophenyl phenyl ether	ND	480	ug/kg	34
Chrysene	ND	480	ug/kg	47
Dibenz(a,h)anthracene	ND	480	ug/kg	32
Dibenzo-furan	ND	480	ug/kg	46
3,3'-Dichlorobenzidine	ND	2300	ug/kg	29
2,4-Dichlorophenol	ND	480	ug/kg	51

(Continued on next page)

Tetra Tech MUS, Inc

Client Sample ID: 03TP06-0607-04

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-004 Work Order #....: JV38J1AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	480	ug/kg	45
2,4-Dimethylphenol	ND	480	ug/kg	42
Dimethyl phthalate	ND	480	ug/kg	39
Di-n-butyl phthalate	ND	480	ug/kg	44
4,6-Dinitro- 2-methylphenol	ND	2300	ug/kg	31
2,4-Dinitrophenol	ND	2300	ug/kg	730
2,4-Dinitrotoluene	ND	480	ug/kg	44
2,6-Dinitrotoluene	ND	480	ug/kg	36
Di-n-octyl phthalate	ND	480	ug/kg	42
Fluoranthene	ND	480	ug/kg	45
Fluorene	ND	480	ug/kg	42
Hexachlorobenzene	ND	480	ug/kg	40
Hexachlorobutadiene	ND	480	ug/kg	67
Hexachlorocyclopenta- diene	ND	2300	ug/kg	33
Hexachloroethane	ND	480	ug/kg	67
Indeno(1,2,3-cd)pyrene	ND	480	ug/kg	34
Isophorone	ND	480	ug/kg	64
2-Methylnaphthalene	ND	480	ug/kg	50
2-Methylphenol	ND	480	ug/kg	71
4-Methylphenol	ND	480	ug/kg	110
Naphthalene	ND	480	ug/kg	50
2-Nitroaniline	ND	2300	ug/kg	45
3-Nitroaniline	ND	2300	ug/kg	45
4-Nitroaniline	ND	2300	ug/kg	28
Nitrobenzene	ND	480	ug/kg	60
2-Nitrophenol	ND	480	ug/kg	66
4-Nitrophenol	ND	2300	ug/kg	34
N-Nitrosodi-n-propyl- amine	ND	480	ug/kg	49
N-Nitrosodiphenylamine	ND	480	ug/kg	54
2,2'-oxybis(1-Chloropropane)	ND	480	ug/kg	79
Pentachlorophenol	ND	2300	ug/kg	33
Phenanthrene	ND	480	ug/kg	46
Phenol	ND	480	ug/kg	53
Pyrene	ND	480	ug/kg	53
2,4,5-Trichloro- phenol	ND	480	ug/kg	47
2,4,6-Trichloro- phenol	ND	480	ug/kg	34

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0607-04

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-004 Work Order #....: JV38J1AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	83	(45 - 105)
2-Fluorophenol	76	(35 - 105)
Phenol-d5	77	(40 - 100)
2,4,6-Tribromophenol	88	(35 - 125)
Nitrobenzene-d5	74	(35 - 100)
Terphenyl-d14	398 *	(30 - 125)

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-002 Work Order #....: JV3771AN Matrix.....: SOLID
 Date Sampled....: 05/01/07 10:45 Date Received...: 05/02/07 10:30 MS Run #.....: 7124004
 Prep Date.....: 05/04/07 Analysis Date...: 05/24/07
 Prep Batch #....: 7124012 Analysis Time...: 15:22
 Dilution Factor: 5 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 * Moisture.....: 22 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	2100	ug/kg	120
2,3,4,6-Tetrachlorophenol	ND	2100	ug/kg	150
Acenaphthene	ND	2100	ug/kg	170
Acenaphthylene	ND	2100	ug/kg	190
Acetophenone	ND	2100	ug/kg	310
Anthracene	ND	2100	ug/kg	200
Atrazine	ND	2100	ug/kg	300
Benzo(a)anthracene	230 J	2100	ug/kg	210
Benzo(a)pyrene	390 J	2100	ug/kg	190
Benzo(b)fluoranthene	290 J	2100	ug/kg	280
Benzo(ghi)perylene	ND	2100	ug/kg	180
Benzo(k)fluoranthene	ND	2100	ug/kg	270
Benzaldehyde	ND	2100	ug/kg	430
1,1'-Biphenyl	ND	2100	ug/kg	240
bis(2-Chloroethoxy)-methane	ND	2100	ug/kg	240
bis(2-Chloroethyl)-ether	ND	2100	ug/kg	240
bis(2-Ethylhexyl)-phthalate	ND	2100	ug/kg	210
4-Bromophenyl phenyl-ether	ND	2100	ug/kg	180
Butyl benzyl phthalate	ND	2100	ug/kg	230
Caprolactam	ND	2100	ug/kg	310
Carbazole	ND	2100	ug/kg	190
4-Chloroaniline	ND	2100	ug/kg	140
4-Chloro-3-methylphenol	ND	2100	ug/kg	180
2-Chloronaphthalene	ND	2100	ug/kg	190
2-Chlorophenol	ND	2100	ug/kg	360
4-Chlorophenyl phenyl-ether	ND	2100	ug/kg	150
Chrysene	250 J	2100	ug/kg	210
Dibenz(a,h)anthracene	ND	2100	ug/kg	140
Dibenzofuran	ND	2100	ug/kg	200
3,3'-Dichlorobenzidine	ND	10000	ug/kg	130
2,4-Dichlorophenol	ND	2100	ug/kg	220

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC/MS Semivolatiles

Lot-Sample #...: C7E020142-002 Work Order #...: JV3771AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	2100	ug/kg	190
2,4-Dimethylphenol	ND	2100	ug/kg	180
Dimethyl phthalate	ND	2100	ug/kg	170
Di-n-butyl phthalate	ND	2100	ug/kg	190
4,6-Dinitro- 2-methylphenol	ND	10000	ug/kg	140
2,4-Dinitrophenol	ND	10000	ug/kg	3200
2,4-Dinitrotoluene	ND	2100	ug/kg	190
2,6-Dinitrotoluene	ND	2100	ug/kg	160
Di-n-octyl phthalate	ND	2100	ug/kg	180
Fluoranthene	ND	2100	ug/kg	200
Fluorene	ND	2100	ug/kg	180
Hexachlorobenzene	ND	2100	ug/kg	170
Hexachlorobutadiene	ND	2100	ug/kg	290
Hexachlorocyclopenta- diene	ND	10000	ug/kg	140
Hexachloroethane	ND	2100	ug/kg	290
Indeno(1,2,3-cd)pyrene	ND	2100	ug/kg	150
Isophorone	ND	2100	ug/kg	280
2-Methylnaphthalene	ND	2100	ug/kg	220
2-Methylphenol	ND	2100	ug/kg	310
4-Methylphenol	ND	2100	ug/kg	470
Naphthalene	ND	2100	ug/kg	220
2-Nitroaniline	ND	10000	ug/kg	200
3-Nitroaniline	ND	10000	ug/kg	200
4-Nitroaniline	ND	10000	ug/kg	120
Nitrobenzene	ND	2100	ug/kg	260
2-Nitrophenol	ND	2100	ug/kg	290
4-Nitrophenol	ND	10000	ug/kg	150
N-Nitrosodi-n-propyl- amine	ND	2100	ug/kg	210
N-Nitrosodiphenylamine	ND	2100	ug/kg	240
2,2'-oxybis(1-Chloropropane)	ND	2100	ug/kg	340
Pentachlorophenol	ND	10000	ug/kg	140
Phenanthrene	ND	2100	ug/kg	200
Phenol	ND	2100	ug/kg	230
Pyrene	580 J	2100	ug/kg	230
2,4,5-Trichloro- phenol	ND	2100	ug/kg	200
2,4,6-Trichloro- phenol	ND	2100	ug/kg	150

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-002 Work Order #....: JV3771AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	70	(45 - 105)
2-Fluorophenol	70	(35 - 105)
Phenol-d5	66	(40 - 100)
2,4,6-Tribromophenol	84	(35 - 125)
Nitrobenzene-d5	65	(35 - 100)
Terphenyl-d14	88	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-003 Work Order #....: JV38A1AN Matrix.....: SOLID
 Date Sampled....: 05/01/07 11:10 Date Received...: 05/02/07 10:30 MS Run #.....: 7124004
 Prep Date.....: 05/04/07 Analysis Date...: 05/24/07
 Prep Batch #....: 7124012 Analysis Time...: 15:51
 Dilution Factor: 5 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 29 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro- benzene	ND	2300	ug/kg	140
2,3,4,6-Tetrachlorophenol	ND	2300	ug/kg	160
Acenaphthene	ND	2300	ug/kg	180
Acenaphthylene	ND	2300	ug/kg	210
Acetophenone	ND	2300	ug/kg	350
Anthracene	ND	2300	ug/kg	220
Atrazine	ND	2300	ug/kg	340
Benzo(a)anthracene	ND	2300	ug/kg	230
Benzo(a)pyrene	ND	2300	ug/kg	210
Benzo(b)fluoranthene	ND	2300	ug/kg	310
Benzo(ghi)perylene	ND	2300	ug/kg	200
Benzo(k)fluoranthene	ND	2300	ug/kg	300
Benzaldehyde	ND	2300	ug/kg	480
1,1'-Biphenyl	ND	2300	ug/kg	270
bis(2-Chloroethoxy) methane	ND	2300	ug/kg	260
bis(2-Chloroethyl)- ether	ND	2300	ug/kg	270
bis(2-Ethylhexyl) phthalate	3300	2300	ug/kg	230
4-Bromophenyl phenyl ether	ND	2300	ug/kg	190
Butyl benzyl phthalate	ND	2300	ug/kg	250
Caprolactam	ND	2300	ug/kg	340
Carbazole	ND	2300	ug/kg	200
4-Chloroaniline	ND	2300	ug/kg	160
4-Chloro-3-methylphenol	ND	2300	ug/kg	200
2-Chloronaphthalene	ND	2300	ug/kg	210
2-Chlorophenol	ND	2300	ug/kg	400
4-Chlorophenyl phenyl ether	ND	2300	ug/kg	160
Chrysene	ND	2300	ug/kg	230
Dibenz(a,h)anthracene	ND	2300	ug/kg	160
Dibenzofuran	ND	2300	ug/kg	220
3,3'-Dichlorobenzidine	ND	11000	ug/kg	140
2,4-Dichlorophenol	ND	2300	ug/kg	240

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC/MS Semivolatiles

Lot-Sample #...: C7E020142-003 Work Order #...: JV38A1AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	2300	ug/kg	220
2,4-Dimethylphenol	ND	2300	ug/kg	200
Dimethyl phthalate	ND	2300	ug/kg	190
Di-n-butyl phthalate	ND	2300	ug/kg	210
4,6-Dinitro- 2-methylphenol	ND	11000	ug/kg	150
2,4-Dinitrophenol	ND	11000	ug/kg	3500
2,4-Dinitrotoluene	ND	2300	ug/kg	210
2,6-Dinitrotoluene	ND	2300	ug/kg	170
Di-n-octyl phthalate	220 J	2300	ug/kg	200
Fluoranthene	ND	2300	ug/kg	220
Fluorene	ND	2300	ug/kg	200
Hexachlorobenzene	ND	2300	ug/kg	190
Hexachlorobutadiene	ND	2300	ug/kg	320
Hexachlorocyclopenta- diene	ND	11000	ug/kg	160
Hexachloroethane	ND	2300	ug/kg	320
Indeno(1,2,3-cd)pyrene	ND	2300	ug/kg	170
Isophorone	ND	2300	ug/kg	310
2-Methylnaphthalene	ND	2300	ug/kg	240
2-Methylphenol	ND	2300	ug/kg	340
4-Methylphenol	ND	2300	ug/kg	520
Naphthalene	ND	2300	ug/kg	240
2-Nitroaniline	ND	11000	ug/kg	220
3-Nitroaniline	ND	11000	ug/kg	220
4-Nitroaniline	ND	11000	ug/kg	130
Nitrobenzene	ND	2300	ug/kg	290
2-Nitrophenol	ND	2300	ug/kg	320
4-Nitrophenol	ND	11000	ug/kg	160
N-Nitrosodi-n-propyl- amine	ND	2300	ug/kg	230
N-Nitrosodiphenylamine	ND	2300	ug/kg	260
2,2'-oxybis(1-Chloropropane)	ND	2300	ug/kg	380
Pentachlorophenol	ND	11000	ug/kg	160
Phenanthrene	ND	2300	ug/kg	220
Phenol	ND	2300	ug/kg	260
Pyrene	ND	2300	ug/kg	250
2,4,5-Trichloro- phenol	ND	2300	ug/kg	230
2,4,6-Trichloro- phenol	ND	2300	ug/kg	160

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Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC/MS Semivolatiles

Lot-Sample #....: C7E020142-003 Work Order #....: JV38A1AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	80	(45 - 105)
2-Fluorophenol	81	(35 - 105)
Phenol-d5	80	(40 - 100)
2,4,6-Tribromophenol	83	(35 - 125)
Nitrobenzene-d5	82	(35 - 100)
Terphenyl-d14	89	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC Semivolatiles

Lot-Sample #....: C7E020142-001	Work Order #....: JV37P1AE	Matrix.....: SOLID
Date Sampled...: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7123032
Prep Date.....: 05/03/07	Analysis Date...: 05/04/07	
Prep Batch #....: 7123048	Analysis Time...: 07:57	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
% Moisture.....: 19	Analyst ID.....: 402331	Instrument ID...: G/H
	Method.....: SW846 8081A	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.1	ug/kg	0.31
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	0.96 J	2.1	ug/kg	0.22
gamma-BHC (Lindane)	0.69 J, PG	2.1	ug/kg	0.28
Heptachlor	ND	2.1	ug/kg	0.26
Aldrin	ND	2.1	ug/kg	0.22
Heptachlor epoxide	1.5 J	2.1	ug/kg	0.21
Endosulfan I	ND	2.1	ug/kg	0.21
Dieldrin	10	2.1	ug/kg	0.15
4,4'-DDE	2.4	2.1	ug/kg	0.12
Endrin	ND	2.1	ug/kg	0.16
Endrin ketone	ND	2.1	ug/kg	0.24
Endrin aldehyde	0.52 J, PG	2.1	ug/kg	0.26
Endosulfan II	ND	2.1	ug/kg	0.47
4,4'-DDD	0.47 J, B, PG	2.1	ug/kg	0.18
Endosulfan sulfate	ND	2.1	ug/kg	0.33
4,4'-DDT	2.2 PG	2.1	ug/kg	0.28
Methoxychlor	1.0 J, PG	4.1	ug/kg	0.85
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	1.2 J, PG	2.1	ug/kg	0.21
Toxaphene	ND	82	ug/kg	14

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
		(70 - 125)	(55 - 130)
Tetrachloro-m-xylene	76		
Decachlorobiphenyl	94		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0607-04

GC Semivolatiles

Lot-Sample #....: C7E020142-004 Work Order #....: JV38J1AP Matrix.....: SOLID
 Date Sampled....: 05/01/07 Date Received...: 05/02/07 MS Run #.....: 7123032
 Prep Date.....: 05/03/07 Analysis Date...: 05/08/07
 Prep Batch #....: 7123048 Analysis Time...: 12:45
 Dilution Factor: 1000 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 20 mL
 % Moisture.....: 32 Analyst ID.....: 402331 Instrument ID..: G/H
 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
alpha-BHC	ND	2500	ug/kg	370
beta-BHC	ND	2500	ug/kg	290
delta-BHC	ND	2500	ug/kg	260
gamma-BHC (Lindane)	ND	2500	ug/kg	340
Heptachlor	ND	2500	ug/kg	310
Aldrin	ND	2500	ug/kg	260
Heptachlor epoxide	390 J, PG	2500	ug/kg	250
Endosulfan I	580 J	2500	ug/kg	260
Dieldrin	10000	2500	ug/kg	180
4,4'-DDE	8700	2500	ug/kg	150
Endrin	ND	2500	ug/kg	200
Endrin ketone	ND	2500	ug/kg	280
Endrin aldehyde	ND	2500	ug/kg	310
Endosulfan II	ND	2500	ug/kg	560
4,4'-DDD	72000 B	2500	ug/kg	220
Endosulfan sulfate	ND	2500	ug/kg	400
4,4'-DDT	270000	2500	ug/kg	330
M thoxychlor	ND	4800	ug/kg	1000
alpha-Chlordane	ND	2500	ug/kg	150
gamma-Chlordane	620 J, PG	2500	ug/kg	250
Toxaphene	ND	98000	ug/kg	17000
SURROGATE	PERCENT RECOVERY	RECOVERY		
		LIMITS		
Tetrachloro-m-xylene	NC, DIL	(70 - 125)		
Decachlorobiphenyl	NC, DIL	(55 - 130)		

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC Semivolatiles

Lot-Sample #....: C7E020142-002	Work Order #....: JV3771AP	Matrix.....: SOLID
Date Sampled....: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7123032
Prep Date.....: 05/03/07	Analysis Date...: 05/04/07	
Prep Batch #....: 7123048	Analysis Time...: 08:48	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol..: 20 mL
% Moisture.....: 22	Analyst ID.....: 402331	Instrument ID..: G/H
	Method.....: SW846 8081A	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
alpha-BHC	ND	2.2	ug/kg	0.33
beta-BHC	ND	2.2	ug/kg	0.25
delta-BHC	ND	2.2	ug/kg	0.23
gamma-BHC (Lindane)	3.0 PG	2.2	ug/kg	0.30
Heptachlor	8.0 PG	2.2	ug/kg	0.27
Aldrin	9.4 PG	2.2	ug/kg	0.23
Heptachlor epoxide	ND	2.2	ug/kg	0.21
Endosulfan I	ND	2.2	ug/kg	0.22
Dieldrin	30	2.2	ug/kg	0.16
4,4'-DDE	13 PG	2.2	ug/kg	0.13
Endrin	ND	2.2	ug/kg	0.17
Endrin ketone	5.2 PG	2.2	ug/kg	0.25
Endrin aldehyde	ND	2.2	ug/kg	0.27
Endosulfan II	ND	2.2	ug/kg	0.49
4,4'-DDD	24 B,PG	2.2	ug/kg	0.19
Endosulfan sulfate	5.9 PG	2.2	ug/kg	0.35
4,4'-DDT	ND	2.2	ug/kg	0.29
Methoxychlor	18	4.2	ug/kg	0.89
alpha-Chlordane	ND	2.2	ug/kg	0.13
gamma-Chlordane	16 PG	2.2	ug/kg	0.22
Toxaphene	ND	86	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
Tetrachloro-m-xylene	80	(70 - 125)	
Decachlorobiphenyl	99	(55 - 130)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC Semivolatiles

Lot-Sample #....: C7E020142-003 Work Order #....: JV38A1AP Matrix.....: SOLID
 Date Sampled....: 05/01/07 Date Received...: 05/02/07 MS Run #.....: 7123032
 Prep Date.....: 05/03/07 Analysis Date...: 05/04/07
 Prep Batch #....: 7123048 Analysis Time...: 09:05
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol..: 20 mL
 % Moisture.....: 29 Analyst ID.....: 402331 Instrument ID..: G/H
 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
alpha-BHC	ND	2.4	ug/kg	0.36
beta-BHC	ND	2.4	ug/kg	0.28
delta-BHC	0.94 J,PG	2.4	ug/kg	0.25
gamma-BHC (Lindane)	3.4 PG	2.4	ug/kg	0.33
Heptachlor	ND	2.4	ug/kg	0.30
Aldrin	9.7	2.4	ug/kg	0.25
Heptachlor epoxide	1.8 J,PG	2.4	ug/kg	0.24
Endosulfan I	1.4 J,PG	2.4	ug/kg	0.25
Dieldrin	68	2.4	ug/kg	0.18
4,4'-DDE	11 PG	2.4	ug/kg	0.14
Endrin	17 PG	2.4	ug/kg	0.19
Endrin ketone	ND	2.4	ug/kg	0.27
Endrin aldehyde	ND	2.4	ug/kg	0.30
Endosulfan II	16 PG	2.4	ug/kg	0.54
4,4'-DDD	57 B	2.4	ug/kg	0.21
Endosulfan sulfate	19	2.4	ug/kg	0.38
4,4'-DDT	69 PG	2.4	ug/kg	0.32
Methoxychlor	24 PG	4.7	ug/kg	0.98
alpha-Chlordane	ND	2.4	ug/kg	0.15
gamma-Chlordane	18 PG	2.4	ug/kg	0.24
Toxaphene	ND	95	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
Tetrachloro-m-xylene	69 *	(70 - 125)	
Decachlorobiphenyl	120	(55 - 130)	

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0304-01

GC Semivolatiles

Lot-Sample #....:	C7E020142-001	Work Order #....:	JV37P1AF	Matrix.....:	SOLID
Date Sampled....:	05/01/07	Date Received...:	05/02/07	MS Run #.....:	7123034
Prep Date.....:	05/03/07	Analysis Date...:	05/04/07		
Prep Batch #....:	7123052	Analysis Time...:	11:55		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	19	Analyst ID.....:	402360	Instrument ID..:	S/T
		Method.....:	SW846 8082		

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
Aroclor 1262	ND	20	ug/kg	4.5
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.9
Aroclor 1232	ND	20	ug/kg	3.5
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	ND	20	ug/kg	2.9

SURROGATE	PERCENT	RECOVERY	LIMITS
	RECOVERY		
Tetrachloro-m-xylene	85	(40 - 140)	
Decachlorobiphenyl	67	(60 - 125))

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech EUS, Inc

Client Sample ID: 03TP06-0607-04

GC Semivolatiles

Lot-Sample #....: C7E020142-004	Work Order #....: JV38J1AQ	Matrix.....: SOLID
Date Sampled...: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7123034
Prep Date.....: 05/03/07	Analysis Date...: 05/04/07	
Prep Batch #....: 7123052	Analysis Time...: 13:34	
Dilution Factor: 20	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
% Moisture.....: 32	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	490	ug/kg	110
Aroclor 1268	ND	490	ug/kg	63
Aroclor 1016	ND	490	ug/kg	73
Aroclor 1221	ND	490	ug/kg	93
Aroclor 1232	ND	490	ug/kg	84
Aroclor 1242	ND	490	ug/kg	80
Aroclor 1248	ND	490	ug/kg	46
Aroclor 1254	ND	490	ug/kg	70
Aroclor 1260	ND	490	ug/kg	70

<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	NC,DIL	(40 - 140)	
Decachlorobiphenyl	NC,DIL	(60 - 125)	

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0708-02

GC Semivolatiles

Lot-Sample #....: C7E020142-002	Work Order #....: JV3771AQ	Matrix.....: SOLID
Date Sampled...: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7123034
Prep Date.....: 05/03/07	Analysis Date...: 05/04/07	
Prep Batch #....: 7123052	Analysis Time...: 12:55	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
* Moisture.....: 22	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	21	ug/kg	4.7
Aroclor 1268	ND	21	ug/kg	2.7
Aroclor 1016	ND	21	ug/kg	3.2
Aroclor 1221	ND	21	ug/kg	4.1
Aroclor 1232	ND	21	ug/kg	3.6
Aroclor 1242	ND	21	ug/kg	3.5
Aroclor 1248	ND	21	ug/kg	2.0
Aroclor 1254	450	21	ug/kg	3.0
Aroclor 1260	550	21	ug/kg	3.0

<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	98	(40 - 140)	
Decachlorobiphenyl	78	(60 - 125)	

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP06-0809-03

GC Semivolatiles

Lot-Sample #....: C7E020142-003	Work Order #....: JV38A1AQ	Matrix.....: SOLID
Date Sampled....: 05/01/07	Date Received...: 05/02/07	MS Run #.....: 7123034
Prep Date.....: 05/03/07	Analysis Date...: 05/04/07	
Prep Batch #....: 7123052	Analysis Time...: 13:14	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
% Moisture.....: 29	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	24	ug/kg	5.2
Aroclor 1268	ND	24	ug/kg	3.0
Aroclor 1016	ND	24	ug/kg	3.5
Aroclor 1221	ND	24	ug/kg	4.5
Aroclor 1232	ND	24	ug/kg	4.0
Aroclor 1242	ND	24	ug/kg	3.8
Aroclor 1248	ND	24	ug/kg	2.2
Aroclor 1254	620	24	ug/kg	3.4
Aroclor 1260	600	24	ug/kg	3.4

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	82	(40 - 140)	
Decachlorobiphenyl	78	(60 - 125)	

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

APPENDIX C

Support Documentation

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E020142

Sample Receiving:

STL Pittsburgh received samples on May 2, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

All non-CCC compounds, associated with ICAL 4050507S, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 1,2-Dibromo-3-chloropropane, Bromoform, Chloroethane and Methylene chloride. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

All non-CCC compounds, associated with ICAL 3050107H, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compound: Trichlorofluoromethane. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

The following compounds had the %D > 25% in the calibration verification standard CC40511; but were within the expected performance range for these compounds: Chloroethane -33.0% and Trichlorofluoromethane -26.8%.

The method blank for batch 7131197 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

The LCS associated with batch 7134083 had acetone and 2-hexanone recover high and outside of criteria. This LCS is within acceptable criteria based on the number of marginal exceedances allowed according to DOD requirements.

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E020142

GC/MS Volatiles(cont.):

The MS/MSD associated with sample 03TP06-0304-01 had dibromoethane recover low and outside of criteria. The RPD between the MS/MSD also recovered outside of criteria for chloroethane. Acceptable LCS data demonstrates that the analytical system was operating in control; this condition is most likely due to a matrix effect.

GC/MS Semivolatiles:

All non-CCC compounds, associated with ICAL 051407APPIX722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Benzaldehyde, 2,4-Dinitrophenol, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene and Dibenz(a,h)anthracene.

The following compound associated with ICAL 051407APPIX722 had %RSD >30% but are within expected ranges: Atrazine.

All non-CCC compounds, associated with ICAL 0522078270722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 4-Methylphenol, 4-Chloroaniline, 1,1'-Biphenyl, 2,3,4,6-Tetrachlorophenol, Fluorene, 4-Chlorophenyl-phenylether, 4,6-Dinitro-2-methylphenol, Atrazine, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and 2,4,6-Tribromophenol.

The following compound associated with ICAL 0522078270722 had %RSD >30% but are within expected ranges: Benzaldehyde and 2,4-Dinitrophenol.

Due to the concentration of target compounds detected and/or matrix effect, several samples were analyzed at a dilution. The extracts were dark and oily in nature.

Sample 03TP06-0607-04 had the terphenyl-d14 surrogate recover high and outside of criteria due to matrix interference. Because of clear matrix effect, no re-extraction was performed.

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E020142

GC/MS Semivolatiles(cont.):

The LCS associated with batch 7124012 had 3-Methylphenol and 4-Methylphenol recover high and outside of criteria. This LCS is within acceptable criteria based on the number of marginal exceedances allowed according to DOD requirements.

The MS/MSD had several compounds and an RPD recover high and outside of criteria. Acceptable LCS data demonstrates that the analytical system was operating in control; this condition is most likely due to a matrix effect.

Pesticides:

All compounds <20% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Sample 03TP06-0809-03 had tetrachloro-m-xylene below the control limits. The recovery of decachlorobiphenyl was within control limits.

Due to the concentration of compounds detected, sample 03TP06-0607-04 was analyzed at a dilution. The surrogates were diluted out.

The matrix spike and matrix spike duplicate recovered below control limits for endosulfan sulfate.

The method blank had 4,4'-DDD detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had the same compound detected had the result flagged with a "B" qualifier.

PCBs:

Due to matrix interference, sample 03TP06-0607-04 was analyzed at a dilution. The surrogates were diluted out.

Metals:

Several samples were over the instruments linear range for iron, copper, manganese, lead, and/or zinc and required a dilution. These samples were also analyzed at a dilution for cadmium, chromium, sodium, lead, antimony, selenium, thallium, vanadium, and zinc were reported from dilution due to inter-element corrections associated with iron and / or manganese.

Several samples were over the instruments' calibration range for mercury and required a dilution.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C7E020142
 MB Lot-Sample #: C7E110000-197
 Analysis Date...: 05/11/07
 Dilution Factor: 1

Work Order #....: JWQX21AA
 Prep Date.....: 05/11/07
 Prep Batch #: 7131197
 Initial Wgt/Vol: 5 g
 Analyst ID.....: 034635

Matrix.....: SOLID
 Analysis Time...: 05:34
 Final Wgt/Vol..: 5 mL
 Instrument ID..: HP4

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1, 2, 3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	1.6 J	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: C7E020142
MB Lot-Sample #: C7E030000-048

Analysis Date..: 05/04/07
Dilution Factor: 1

Work Order #....: JV6CH1AA
Prep Date.....: 05/03/07
Prep Batch #....: 7123048
Initial Wgt/Vol: 15 g
Analyst ID.....: 402331

Matrix.....: SOLID
Analysis Time..: 11:04
Final Wgt/Vol..: 20 mL
Instrument ID..: G/H

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	0.28 J	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
Tetrachloro-m-xylene	98	(70 - 125)	
Decachlorobiphenyl	96	(55 - 130)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quantitation is estimated.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP06-0304-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E020142

Lab Sample ID: JV37P1AE

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
	==	=====	=====	=====	=====	=====
alpha-BHC <i>not S-10-57</i>	1	4.30	4.29	4.35	0.2473	
	2	4.32	4.30	4.40	1.772	616.5
delta-BHC	1	5.63	5.60	5.66	0.7755	
	2	5.37	5.30	5.40	0.7833	1.0
gamma-BHC (Lindane)	1	4.69	4.65	4.71	1.348	
	2	4.76	4.68	4.78	0.5656	138.3
Heptachlor epoxide	1	6.09	6.05	6.11	1.202	
	2	6.04	5.97	6.07	0.9778	22.9
Dieldrin	1	6.88	6.85	6.91	7.554	
	2	6.83	6.78	6.88	8.175	8.2
4,4'-DDE	1	6.71	6.68	6.74	1.989	
	2	6.63	6.58	6.68	1.859	7.0
4,4'-DDD	1	7.45	7.41	7.47	2.507	
	2	7.43	7.36	7.46	0.3835	553.7
4,4'-DDT	1	7.89	7.86	7.92	1.769	
	2	7.82	7.76	7.86	3.852	117.8

page 1 of 2

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP06-0304-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E020142

Lab Sample ID: JV37P1AE

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
	---	----	-----	-----	-----	-----
Methoxychlor	1	8.70	8.65	8.71	0.8206	433.9
	2	8.73	8.64	8.74	4.381	
Endrin aldehyde	1	7.75	7.69	7.75	0.4213	340.1
	2	7.90	7.86	7.96	1.854	
gamma-Chlordane	1	6.36	6.34	6.40	1.451	44.1
	2	6.35	6.29	6.39	1.007	
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____

page 2 of 2

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP06-0708-02

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E020142

Lab Sample ID: JV3771AP

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	4.67	4.65	4.71	7.121	199.0
	2	4.75	4.68	4.78	2.382	
Heptachlor	1	5.25	5.25	5.31	6.237	137.6
	2	5.18	5.12	5.22	14.82	
Aldrin	1	5.19	5.14	5.20	19.76	170.1
	2	5.49	5.44	5.54	7.315	
Dieldrin	1	6.89	6.85	6.91	17.27	
	2	6.83	6.78	6.88	23.20	34.3
4, 4'-DDE	1	6.71	6.68	6.74	23.28	136.0
	2	6.63	6.58	6.68	9.865	
4, 4'-DDD	1	7.45	7.41	7.47	37.63	
	2	7.41	7.36	7.46	18.88	99.3
Endosulfan sulfate	1	8.10	8.04	8.10	4.583	
	2	8.31	8.22	8.32	10.97	139.4
Methoxychlor	1	8.70	8.65	8.71	11.67	
	2	8.69	8.64	8.74	13.97	19.7

page 1 of 2

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

Lab Name: STL PITTSBURGH

Contract:

03TP06-0708-02

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E020142

Lab Sample ID: JV3771AP

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
Endrin ketone	1	8.83	8.78	8.84	18.31	
	2	9.09	9.02	9.12	4.036	353.7
gamma-Chlordane	1	6.36	6.34	6.40	20.02	
	2	6.35	6.29	6.39	12.30	62.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

Lab Name: STL PITTSBURGH

Contract:

03TP06-0809-03

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E020142

Lab Sample ID: JV38A1AP

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm) GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
	==	=====	=====	=====	=====	=====
delta-BHC	1	5.63	5.60	5.66	0.6673	999.9
	2	5.39	5.30	5.40	11.53	
gamma-BHC (Lindane)	1	4.67	4.65	4.71	5.419	125.0
	2	4.75	4.68	4.78	2.408	
Aldrin	1	5.15	5.14	5.20	6.827	3.9
	2	5.49	5.44	5.54	6.572	
Heptachlor epoxide	1	6.09	6.05	6.11	14.03	999.9
	2	6.02	5.97	6.07	1.252	
Endosulfan I	1	6.54	6.49	6.55	1.937	92.4
	2	6.50	6.43	6.53	1.007	
Dieldrin	1	6.89	6.85	6.91	39.29	22.6
	2	6.83	6.78	6.88	48.18	
4,4'-DDE	1	6.71	6.68	6.74	16.80	114.8
	2	6.63	6.58	6.68	7.822	
Endrin	1	7.22	7.16	7.22	24.21	96.5
	2	7.19	7.16	7.26	12.32	

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FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP06-0809-03

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E020142

Lab Sample ID: JV38A1AP

Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
	====	=====	=====	=====	=====	=====
Endosulfan II	1	7.53	7.50	7.56	16.31	
	2	7.65	7.60	7.70	11.23	45.2
4,4'-DDD	1	7.45	7.41	7.47	40.21	
	2	7.44	7.36	7.46	29.66	35.6
Endosulfan sulfate	1	8.05	8.04	8.10	13.78	
	2	8.30	8.22	8.32	13.65	1.0
4,4'-DDT	1	7.92	7.86	7.92	302.9	
	2	7.82	7.76	7.86	49.10	516.9
Methoxychlor	1	8.70	8.65	8.71	16.73	
	2	8.73	8.64	8.74	80.22	379.5
gamma-Chlordane	1	6.36	6.34	6.40	21.75	
	2	6.35	6.29	6.39	12.53	73.6
	1					
	2					
	1					
	2					

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FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP06-0607-04

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E020142

Lab Sample ID: JV38J1AP

Date(s) Analyzed: 05/08/07 05/08/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
	==	=====	=====	=====	=====	=====
Heptachlor epoxide	1	6.09	6.05	6.11	394.8	
	2	6.06	5.97	6.07	266.9	47.9
Endosulfan I	1	6.51	6.49	6.55	382.4	
	2	6.45	6.43	6.53	397.3	3.9
Dieldrin	1	6.85	6.85	6.91	6245	
	2	6.85	6.78	6.88	6808	9.0
4,4'-DDE	1	6.72	6.68	6.74	5166	
	2	6.63	6.58	6.68	5947	15.1
4,4'-DDD	1	7.45	7.41	7.47	43700	
	2	7.42	7.36	7.46	48930	12.0
4,4'-DDT	1	7.90	7.86	7.92	184700	
	2	7.81	7.76	7.86	182900	1.0
gamma-Chlordane	1	6.37	6.34	6.40	899.8	
	2	6.31	6.29	6.39	424.6	111.9
	1					
	2					

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FORM X PEST-1

OLM03.0

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i Injection Date: 11-MAY-2007 04:55
 Lab File ID: CC40511.D Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007
 Analysis Type: SOIL Init. Cal. Times: 18:10 06:23
 Lab Sample ID: vstd50 Quant Type: ISTD
 Method: \\qpitpa02\d\chem\hp4.i\4051107d.b\8260bsoil.m

COMPOUND	RRF	RF50	MIN	TD	MAX
\$ 39 Dibromofluoromethane	0.22684	0.21529 0.010	-5.1	50.0	
\$ 43 1,2-Dichloroethane-d4	0.28471	0.26248 0.010	-7.8	50.0	
\$ 59 Toluene-d8	4.40755	4.62683 0.010	5.0	50.0	
\$ 80 Bromofluorobenzene	1.63249	1.66722 0.010	2.1	50.0	
1 Dichlorodifluoromethane	0.32011	0.35108 0.010	9.7	50.0	
2 Chloromethane	0.48976	0.45710 0.100	-6.7	25.0	
3 Vinyl Chloride	0.40416	0.39540 0.010	-2.2	20.0	
4 Bromomethane	0.08465	0.08197 0.000	-3.2	30.0	
5 Chloroethane	0.13767	0.09219 0.010	-33.0	50.0	
6 Trichlorofluoromethane	0.31832	0.23391 0.010	-26.5	50.0	
12 1,1-Dichloroethene	0.25486	0.24234 0.010	-4.9	20.0	
156 1,1,2-Trichlorotrifluoroeth	0.25472	0.24135 0.010	-5.2	25.0	
13 Acetone	250	211 0.010	15.5	50.0	
155 Methyl acetate	0.19455	0.17392 0.010	-10.6	50.0	
15 Carbon Disulfide	0.89762	0.86716 0.010	-3.4	25.0	
18 Methylene Chloride	0.29069	0.26942 0.010	-7.3	50.0	
19 trans-1,2-Dichloroethene	0.29498	0.28537 0.010	-3.3	25.0	
20 Methyl tert-butyl ether	0.62804	0.56845 0.010	-9.5	25.0	
24 1,1-Dichloroethane	0.61230	0.57780 0.100	-5.6	25.0	
27 2,2-Dichloropropane	0.36172	0.34270 0.010	-5.3	25.0	
28 cis-1,2-dichloroethene	0.29633	0.28440 0.010	-4.0	25.0	
M 29 1,2-Dichloroethene (total)	0.29565	0.28488 0.010	-3.6	25.0	
30 Bromochloromethane	0.11688	0.10743 0.010	-8.1	25.0	
31 2-Butanone	0.14622	0.13606 0.010	-6.9	50.0	
37 Chloroform	0.45913	0.43143 0.010	-6.0	20.0	
157 Cyclohexane	0.82434	0.77299 0.010	-6.2	25.0	
38 1,1,1-Trichloroethane	0.41676	0.39283 0.010	-5.7	25.0	
40 1,1-Dichloropropene	0.40253	0.38692 0.010	-3.9	25.0	
41 Carbon Tetrachloride	0.32365	0.31516 0.010	-2.6	25.0	
42 Benzene	1.16956	1.11133 0.010	-5.0	25.0	
45 1,2-Dichloroethane	0.38382	0.35279 0.010	-8.1	25.0	
47 Trichloroethene	0.28723	0.27104 0.010	-5.6	25.0	
158 methyl cyclohexane	0.57614	0.54243 0.010	-5.8	25.0	
49 1,2-Dichloropropane	0.33072	0.30461 0.010	-7.9	20.0	
50 Dibromomethane	0.11616	0.10553 0.010	-9.1	25.0	

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1CX

BATCH: 7131197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS REC	LIMITS REC	QUAL
<u>trans-1,3-Dichloropropene</u>	53.4	ND	44.3	83	65 - 125	
Ethylbenzene	53.4	ND	53.5	100	75 - 125	
2-Hexanone	53.4	ND	38.1	71	45 - 145	
Methylene chloride	53.4	3.5	41.7	72	55 - 140	
4-Methyl-2-pentanone	53.4	ND	35.3	66	45 - 145	
Naphthalene	53.4	ND	37.4	70	40 - 125	
Styrene	53.4	ND	49.9	93	75 - 125	
1,1,1,2-Tetrachloroethane	53.4	ND	50.3	94	75 - 125	
1,1,2,2-Tetrachloroethane	53.4	ND	46.4	87	55 - 130	
Tetrachloroethene	53.4	ND	53.5	100	65 - 140	
1,1,2-Trichloroethane	53.4	ND	42.2	79	60 - 125	
1,1,1-Trichloroethane	53.4	ND	47.4	89	70 - 135	
Trichlorofluoromethane	53.4	ND	51.3	96	25 - 185	
Xylenes (total)	160	ND	158	99	37 - 162	
o-Xylene	53.4	ND	52.6	98	75 - 125	
m-Xylene & p-Xylene	107	ND	106	99	80 - 125	
Vinyl chloride	53.4	ND	52.2	98	60 - 125	
Methyl tert-butyl ether	53.4	ND	34.8	65	40 - 140	
Isopropylbenzene	53.4	ND	51.5	96	75 - 130	
1,1-Dichloropropene	53.4	ND	47.2	88	70 - 135	
1,2,3-Trichlorobenzene	53.4	ND	36.9	69	60 - 135	
1,2,3-Trichloropropane	53.4	ND	44.8	84	65 - 130	
1,2,4-Trichlorobenzene	53.4	ND	40.3	75	65 - 130	
2,2-Dichloropropane	53.4	ND	48.4	91	65 - 135	
2-Chlorotoluene	53.4	ND	60.8	114	70 - 130	
4-Chlorotoluene	53.4	ND	59.7	112	75 - 125	
Bromobenzene	53.4	ND	56.8	106	65 - 120	
Dibromomethane	53.4	ND	35.6	67*	75 - 130	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C0

BATCH: 7131197

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS			QUAL
	%	%	REC	RPD	RPD	REC		
1,1-Dichloroethene	50.4	45.3	90	2.6	35	65 - 135		
Trichloroethene	50.4	45.0	89	3.5	30	75 - 125		
Benzene	50.4	45.5	90	1.8	30	75 - 125		
Toluene	50.4	50.5	100	2.4	30	70 - 125		
Chlorobenzene	50.4	49.6	98	2.0	30	75 - 125		
Acetone	50.4	28.3	56	2.9	37	20 - 160		
Bromodichloromethane	50.4	41.4	82	0.35	30	70 - 130		
Bromoform	50.4	38.2	76	0.90	30	55 - 135		
Bromomethane	50.4	48.4	96	2.0	30	30 - 160		
2-Butanone	50.4	31.7	63	2.4	33	30 - 160		
Bromochloromethane	50.4	39.1	78	2.4	30	70 - 125		
Carbon disulfide	50.4	45.8	91	2.8	36	45 - 160		
Carbon tetrachloride	50.4	46.4	92	3.7	30	65 - 135		
Chloroethane	50.4	35.2	70	46 *	30	40 - 155	p	
Chloroform	50.4	44.7	89	1.9	30	70 - 125		
Chloromethane	50.4	50.9	101	4.4	30	50 - 130		
1,2-Dibromo-3-chloropropane	50.4	41.2	82	5.5	30	40 - 135		
1,2-Dibromoethane	50.4	39.7	79	2.4	30	70 - 125		
1,3-Dichlorobenzene	50.4	54.0	107	2.4	30	70 - 125		
1,4-Dichlorobenzene	50.4	52.2	104	3.2	30	70 - 125		
1,2-Dichlorobenzene	50.4	50.2	100	4.2	30	75 - 120		
Dichlorodifluoromethane	50.4	55.9	111	0.59	30	35 - 135		
1,1-Dichloroethane	50.4	45.7	91	1.5	47	75 - 125		
1,2-Dichloroethane	50.4	38.4	76	0.41	43	70 - 135		
trans-1,2-Dichloroethene	50.4	46.0	91	2.9	30	65 - 135		
cis-1,2-Dichloroethene	50.4	45.0	89	1.8	30	65 - 125		
1,2-Dichloropropane	50.4	42.5	84	0.89	30	70 - 120		
cis-1,3-Dichloropropene	50.4	40.4	80	1.0	40	70 - 125		

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C0

BATCH: 7131197

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD %	MSD %	QC LIMITS			QUAL
	REC	RPD	REC	RPD	REC			
trans-1,3-Dichloropropene	50.4	44.4	88	0.020	31	65-	125	
Ethylbenzene	50.4	51.5	102	3.8	30	75-	125	
2-Hexanone	50.4	38.8	77	1.8	31	45-	145	
Methylene chloride	50.4	41.7	76	0.11	30	55-	140	
4-Methyl-2-pentanone	50.4	35.4	70	0.41	39	45-	145	
Naphthalene	50.4	36.8	73	1.4	30	40-	125	
Styrene	50.4	48.7	97	2.4	30	75-	125	
1,1,1,2-Tetrachloroethane	50.4	50.3	100	0.14	30	75-	125	
1,1,2,2-Tetrachloroethane	50.4	46.8	93	0.73	30	55-	130	
Tetrachloroethene	50.4	51.0	101	4.9	30	65-	140	
1,1,2-Trichloroethane	50.4	42.6	85	1.1	30	60-	125	
1,1,1-Trichloroethane	50.4	45.8	91	3.3	30	70-	135	
Trichlorofluoromethane	50.4	48.6	97	5.4	30	25-	185	
Xylenes (total)	151	154	102	2.8	30	37-	162	
o-Xylene	50.4	50.8	101	3.6	30	75-	125	
m-Xylene & p-Xylene	101	103	102	2.4	30	80-	125	
Vinyl chloride	50.4	51.8	103	0.87	30	60-	125	
Methyl tert-butyl ether	50.4	35.9	71	3.0	50	40-	140	
Isopropylbenzene	50.4	49.2	98	4.6	30	75-	130	
1,1-Dichloropropene	50.4	45.6	91	3.5	30	70-	135	
1,2,3-Trichlorobenzene	50.4	35.2	70	4.5	30	60-	135	
1,2,3-Trichloropropane	50.4	45.8	91	2.3	30	65-	130	
1,2,4-Trichlorobenzene	50.4	39.2	78	2.9	30	65-	130	
2,2-Dichloropropane	50.4	47.2	94	2.5	30	65-	135	
2-Chlorotoluene	50.4	58.5	116	4.0	30	70-	130	
4-Chlorotoluene	50.4	56.4	112	5.7	30	75-	125	
Bromobenzene	50.4	55.3	110	2.6	30	65-	120	
Dibromomethane	50.4	36.2	72*	1.7	30	75-	130	a

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Lot #: C7E140000

WO #: JWWPL1AC

BATCH: 7134083

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	48.2	96	70 - 130	
Trichloroethene	50.0	49.6	99	70 - 125	
Benzene	50.0	50.6	101	80 - 120	
Toluene	50.0	56.4	113	75 - 120	
Chlorobenzene	50.0	56.0	112	80 - 120	
Acetone	50.0	80.8	162*	40 - 140	a
Bromodichloromethane	50.0	49.1	98	75 - 120	
Bromoform	50.0	49.9	100	70 - 130	
Bromomethane	50.0	50.0	100	30 - 145	
2-Butanone	50.0	74.3	149	30 - 150	
Bromochloromethane	50.0	49.8	100	65 - 130	
Carbon disulfide	50.0	46.0	92	35 - 160	
Carbon tetrachloride	50.0	46.5	93	65 - 140	
Chloroethane	50.0	53.6	107	60 - 135	
Chloroform	50.0	50.1	100	65 - 135	
Chloromethane	50.0	49.5	99	40 - 125	
1,2-Dibromo-3-chloroprop	50.0	43.9	88	50 - 130	
1,2-Dibromoethane	50.0	57.2	114	80 - 120	
1,3-Dichlorobenzene	50.0	52.4	105	75 - 125	
1,4-Dichlorobenzene	50.0	52.1	104	75 - 125	
1,2-Dichlorobenzene	50.0	52.4	105	70 - 120	
Dichlorodifluoromethane	50.0	47.4	95	30 - 155	
1,1-Dichloroethane	50.0	49.1	98	70 - 135	
1,2-Dichloroethane	50.0	52.6	105	70 - 130	
trans-1,2-Dichloroethene	50.0	48.6	97	60 - 140	
cis-1,2-Dichloroethene	50.0	50.2	100	70 - 125	
1,2-Dichloropropane	50.0	50.9	102	75 - 125	
cis-1,3-Dichloropropene	50.0	48.1	96	70 - 130	
trans-1,3-Dichloropropene	50.0	53.2	106	55 - 140	
Ethylbenzene	50.0	55.8	112	75 - 125	
2-Hexanone	50.0	76.1	152*	55 - 130	a

(Continued on next page)

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53
 End Cal Date : 22-MAY-2007 08:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\qpitpa02\d\chem\722.i\5pt.b\8270b.m
 Last Edit : 23-May-2007 11:12 bungardf
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\722.i\5pt.b\F05220C2.D
 Level 2: \\qpitpa02\d\chem\722.i\5pt.b\F05220C3.D
 Level 3: \\qpitpa02\d\chem\722.i\5pt.b\F05220C1.D
 Level 4: \\qpitpa02\d\chem\722.i\5pt.b\F05220C4.D
 Level 5: \\qpitpa02\d\chem\722.i\5pt.b\F05220C5.D
 Level 6: \\qpitpa02\d\chem\722.i\5pt.b\F05220C6.D

Compound	20.000	40.000	50.000	80.000	120.000	160.000	—	RRF	RSD
225 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 3&4 Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
198 1,4-Dioxane	0.80783	0.85090	0.78322	0.79489	0.77457	0.74499	0.79273	4.483	
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Pyridine	2.09834	2.06140	2.00258	1.95954	1.90499	1.84664	1.97892	4.792	
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
200 Sulfotep	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
10 N-Nitrosodimethylamine	1.07611	1.09582	1.02781	1.04709	1.02654	0.98797	1.04356	3.694	
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
12 3-Chloropropionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 Methyl methanesulfonate	1.12369	1.14981	1.07439	1.09961	1.03304	1.00899	1.08159	4.967	
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
220 Benzaldehyde	1.07180	0.91144	0.65148	0.67251	0.47508	0.38609	0.69473	37.259	
21 Aniline	1.60986	1.55481	1.47089	1.48016	1.45115	1.43072	1.49960	4.572	
22 Phenol	1.41866	1.44790	1.46942	1.45389	1.50968	1.58503	1.48076	3.995	
23 bis(2-Chloroethyl)ether	1.06035	1.03536	1.04891	1.03121	1.07674	1.12280	1.06256	3.190	
24 2-Chlorophenol	1.29291	1.31277	1.31634	1.29511	1.37421	1.42938	1.33679	4.046	
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 1,3-Dichlorobenzene	1.61658	1.61194	1.60833	1.63125	1.73334	1.78936	1.66513	4.624	
27 1,4-Dichlorobenzene	1.64545	1.61147	1.60397	1.66605	1.73463	1.80389	1.67758	4.630	
28 1,2-Dichlorobenzene	1.47777	1.46905	1.48051	1.51518	1.60528	1.69452	1.54039	5.893	

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Lot #: C7E020142

Extraction: XXA4FQLWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	03TP06-0304-01	66	50	48	68	67	80	00
02	03TP06-0708-02	70	70	66	84	65	88	00
03	03TP06-0809-03	80	81	80	83	82	89	00
04	03TP06-0607-04	83	76	77	88	74	398*	01
05	METHOD BLK. JV84A1AA	70	75	78	87	69	97	00
06	LCS JV84A1AC	91	95	97	97	91	104	00
07	03TP06-0304-01 D	85	61	62	110	86	74	00
08	03TP06-0304-01 S	88	68	68	106	86	83	00

SURROGATES

SRG01 = 2-Fluorobiphenyl
 SRG02 = 2-Fluorophenol
 SRG03 = Phenol-d5
 SRG04 = 2,4,6-Tribromophenol
 SRG05 = Nitrobenzene-d5
 SRG06 = Terphenyl-d14

QC LIMITS

(45-105)
 (35-105)
 (40-100)
 (35-125)
 (35-100)
 (30-125)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C2

BATCH: 7124012

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
Dibenz(a,h)anthracene	2050	2790	136*	5.8	-	55	40 - 125 a
Dibenzofuran	2050	1640	80	3.1	-	27	50 - 105
Di-n-butyl phthalate	2050	1600	78	4.2	-	24	55 - 110
1,2-Dichlorobenzene	2050	1180	58	15	-	25	45 - 95
1,3-Dichlorobenzene	2050	1130	55	13	-	46	40 - 100
3,3'-Dichlorobenzidine	2050	412	20	24	-	56	10 - 130
2,4-Dichlorophenol	2050	1610	78	2.0	-	27	45 - 110
Diethyl phthalate	2050	2550	125*	148*	-	29	50 - 115 a p
2,4-Dimethylphenol	2050	1520	74	2.3	-	26	30 - 105
Dimethyl phthalate	2050	1620	79	1.4	-	30	50 - 110
4,6-Dinitro-2-methylpheno	2050	1840	90	6.0	-	39	30 - 135
2,4-Dinitrophenol	2050	1090	53	3.1	-	56	15 - 130
2,6-Dinitrotoluene	2050	1630	80	1.1	-	39	50 - 110
Di-n-octyl phthalate	2050	1520	74	3.1	-	29	40 - 130
Fluoranthene	2050	1440	71	13	-	23	55 - 115
Fluorene	2050	1660	81	1.8	-	29	50 - 110
Hexachlorobenzene	2050	1890	92	4.6	-	29	45 - 120
Hexachlorobutadiene	2050	1700	83	8.3	-	25	40 - 115
Hexachloroethane	2050	1180	57	12	-	29	35 - 110
Indeno(1,2,3-cd)pyrene	2050	2430	119	7.8	-	37	40 - 120
Isophorone	2050	1850	90	2.2	-	30	45 - 110
2-Methylnaphthalene	2050	1470	72	7.8	-	27	45 - 105
2-Methylphenol	2050	1220	60	6.6	-	29	40 - 105
Naphthalene	2050	1690	82	7.5	-	25	40 - 105
2-Nitroaniline	2050	1780	87	0.60	-	39	45 - 120
3-Nitroaniline	2050	1060	52	9.6	-	45	25 - 110
4-Nitroaniline	2050	1340	65	0.47	-	44	35 - 115
Nitrobenzene	2050	2860	140*	3.6	-	29	40 - 115 a

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Lot #: C7E040000

WO #: JV84A1AC

BATCH: 7124012

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,2'-oxybis(1-Chloropropyl)	1670	1380	83	20 - 115	
N-Nitrosodimethylamine	1670	1680	101	20 - 115	
3-Methylphenol & 4-Methyl	3330	3690	111*	40 - 105	a
1,2-Diphenylhydrazine (as)	1670	1620	97	1 - 175	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 66 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C1

BATCH: 7124012

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Dibenz(a,h)anthracene	2050	ND	2630	129*	40 - 125	a
Dibenzofuran	2050	ND	1690	83	50 - 105	
Di-n-butyl phthalate	2050	ND	1530	75	55 - 110	
1,2-Dichlorobenzene	2050	ND	1370	67	45 - 95	
1,3-Dichlorobenzene	2050	ND	1290	63	40 - 100	
3,3'-Dichlorobenzidine	2050	ND	324	16	10 - 130	
2,4-Dichlorophenol	2050	ND	1640	80	45 - 110	
Diethyl phthalate	2050	ND	1570	77	50 - 115	
2,4-Dimethylphenol	2050	ND	1490	73	30 - 105	
Dimethyl phthalate	2050	ND	1600	78	50 - 110	
4,6-Dinitro-2-methylpheno	2050	ND	1960	96	30 - 135	
2,4-Dinitrophenol	2050	ND	1060	52	15 - 130	
2,6-Dinitrotoluene	2050	ND	1650	81	50 - 110	
Di-n-octyl phthalate	2050	ND	1560	76	40 - 130	
Fluoranthene	2050	ND	1270	62	55 - 115	
Fluorene	2050	ND	1690	83	50 - 110	
Hexachlorobenzene	2050	ND	1970	96	45 - 120	
Hexachlorobutadiene	2050	ND	1850	90	40 - 115	
Hexachloroethane	2050	ND	1330	65	35 - 110	
Indeno(1,2,3-cd)pyrene	2050	ND	2250	110	40 - 120	
Isophorone	2050	ND	1890	92	45 - 110	
2-Methylnaphthalene	2050	ND	1590	78	45 - 105	
2-Methylphenol	2050	ND	1310	64	40 - 105	
Naphthalene	2050	ND	1820	88	40 - 105	
2-Nitroaniline	2050	ND	1790	87	45 - 120	
3-Nitroaniline	2050	ND	965	47	25 - 110	
4-Nitroaniline	2050	ND	1330	65	35 - 115	
Nitrobenzene	2050	ND	2760	135*	40 - 115	a

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SW846 5051A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Lot #: C7E020142

Extraction: XXA4FQJWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	03TP06-0304-01	76	94	00
02	03TP06-0708-02	80	99	00
03	03TP06-0809-03	69 *	120	01
04	03TP06-0607-04	0 D	0 D	02
05	METHOD BLK. JV6CH1AA	98	96	00
06	LCS JV6CH1AC	97	94	00
07	03TP06-0304-01 D	76	90	00
08	03TP06-0304-01 S	76	89	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
 SRG02 = Decachlorobiphenyl

QC LIMITS

(70-125)
 (55-130)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C3

BATCH: 7123048

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	40.9	0.69	27.4	65	60 - 125	
Heptachlor	40.9	ND	37.5	92	50 - 140	
Aldrin	40.9	ND	38.8	95	45 - 140	
Dieldrin	40.9	10	44.2	83	65 - 125	
Endrin	40.9	ND	43.5	106	60 - 135	
4,4'-DDT	40.9	2.2	49.5	116	45 - 140	
alpha-BHC	40.9	ND	28.7	70	60 - 125	
beta-BHC	40.9	ND	36.2	88	60 - 125	
delta-BHC	40.9	0.96	36.8	88	55 - 130	
Heptachlor epoxide	40.9	1.5	37.4	88	65 - 130	
Endosulfan I	40.9	ND	35.5	87	15 - 135	
4,4'-DDE	40.9	2.4	53.2	124	70 - 125	
Endosulfan II	40.9	ND	34.5	84	35 - 140	
4,4'-DDD	40.9	0.47	33.0	79	30 - 135	
Endosulfan sulfate	40.9	ND	7.48	18*	60 - 135	a
Methoxychlor	40.9	1.0	36.5	87	55 - 145	
Endrin ketone	40.9	ND	35.0	86	65 - 135	
Endrin aldehyde	40.9	0.52	17.3	41	35 - 145	
alpha-Chlordane	40.9	ND	36.3	89	65 - 120	
gamma-Chlordane	40.9	1.2	37.7	89	65 - 125	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 20 outside limits

COMMENTS:

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP06-0304-01

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C4

BATCH: 7123048

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	QC LIMITS RPD	RPD	REC	QUAL
gamma-BHC (Lindane)	40.9	27.3	65	0.40	36	60 - 125	
Heptachlor	40.9	37.6	92	0.19	44	50 - 140	
Aldrin	40.9	38.8	95	0.0	40	45 - 140	
Dieldrin	40.9	44.5	84	0.85	33	65 - 125	
Endrin	40.9	43.5	106	0.050	38	60 - 135	
4,4'-DDT	40.9	48.7	114	1.8	42	45 - 140	
alpha-BHC	40.9	28.8	70	0.42	40	60 - 125	
beta-BHC	40.9	36.4	89	0.57	43	60 - 125	
delta-BHC	40.9	36.5	87	0.77	34	55 - 130	
Heptachlor epoxide	40.9	37.8	89	1.1	43	65 - 130	
Endosulfan I	40.9	35.7	87	0.31	41	15 - 135	
4,4'-DDE	40.9	53.2	124	0.040	39	70 - 125	
Endosulfan II	40.9	34.6	85	0.24	27	35 - 140	
4,4'-DDD	40.9	33.3	80	1.0	35	30 - 135	
Endosulfan sulfate	40.9	7.36	18*	1.7	34	60 - 135	a
Methoxychlor	40.9	35.7	85	2.3	41	55 - 145	
Endrin ketone	40.9	34.6	85	1.3	32	65 - 135	
Endrin aldehyde	40.9	17.7	42	2.1	29	35 - 145	
alpha-Chlordane	40.9	36.4	89	0.16	65	65 - 120	
gamma-Chlordane	40.9	37.8	89	0.090	36	65 - 125	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits

Spike Recovery: 1 out of 20 outside limits

COMMENTS:

FORM III

SW846 8082 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Lot #: C7E020142

Extraction: XXA4FQHWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	03TP06-0304-01	85	67	00
02	03TP06-0708-02	98	78	00
03	03TP06-0809-03	82	78	00
04	03TP06-0607-04	0 D	0 D	02
05	METHOD BLK. JV6CP1AA	10.0	7.7	00
06	LCS JV6CP1AC	101	76	00
07	03TP06-0304-01 D	99	69	00
08	03TP06-0304-01 S	112	79	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
 SRG02 = Decachlorobiphenyl

QC LIMITS

(40-140)
 (60-125)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II